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MIFA IN ACTION

MALAYSIA INDUSTRY FORWARD ASSOCIATION

5 MIFA Companies Received Grants from MOSTI

YB Senator Tengku Datuk Seri Utama Zafrul Bin Tengku Abdul Aziz
Minister of International Trade and Industry (MITI) Malaysia

YBM Dato' Sri Dr Adham Baba & MIFA Member
Meeting At MOSTI

Industry visit
Siemens City in Vienna,Austria

Humanizing Sustainability Technologies

Robot Operating System (R.O.S)

Welcome Our New Member

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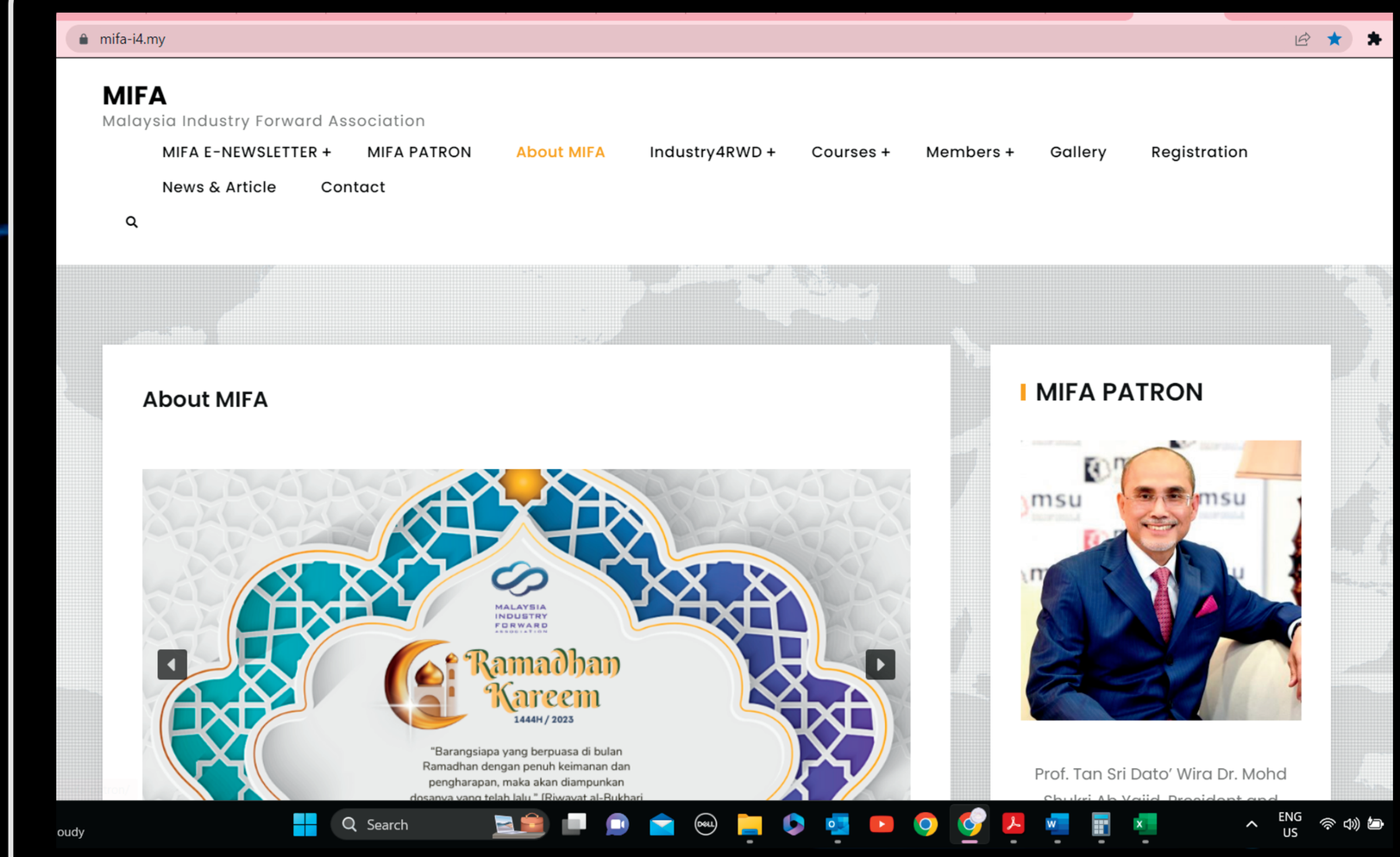

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CONTENTS

INTRODUCTION

1 *PRESIDENT REMARK*

2 *COVER STORY : DATUK WIRA HAJI MUHAMMAD FAIZAL ZAINOL*

3 *COVER STORY : CONGRATULATE MALAYSIA'S NEW MITI MINISTER*

MIFA EVENTS

4 *5 COMPANY UNDER MIFA HAVE BEEN SELECTED TO RECEIVE GRANTS FROM MOSTI*

5 *COURTESY VISIT TO TECHUP SDN BHD BY OUR MIFA PRESIDENT & CEO, MIFA ACADEMY*

6 *MAJLIS PELANCARAN PELAN HALA TUJU TEKNOLOGI DI HOTEL ALOFT, KUALA LUMPUR.*

7 *MIFA'S EXCOS VISIT TO MRANTI*

8 *VISIT KEMENTERIAN DALAM NEGERI*

9 *MEETING WITH SME CORP HIGHER MANAGEMENT TEAM*

10 *NDA SIGNING BETWEEN KOPERASI BELIA ISLAM MALAYSIA BERHAD (KBI) & MALAYSIA INDUSTRY FORWARD ASSOCIATION (MIFA)*

11 *MEETING WITH YBM DATO' SRI DR ADHAM BABA AND MIFA MEMBER*

12 *MIFA PRESIDENT AND SENIOR MIFA REPRESENTATIVES WERE INVITED TO THE LAUNCH EVENT OF DASAR TENAGA NEGARA 2022 (DTN 2022)*

13 *SMART NATION EXPO AT MITEC*

14 *GLOBAL MARKET-FIT PROGRAM WITH MRANTI @ JAKARTA*

15 *MALAYSIAN TECH STARTUPS WITH MRANTI-KUMPUL SPECIAL VISIT TO KOMINFO (KEMENTERIAN KOMUNIKASI DAN INFORMATIKA INDONESIA).*

16 *INDUSTRY VISIT TO SIEMENS CITY IN VIENNA AUSTRIA.*

17 *ILSAS TECH TALK 2022*

18 *VISIT VIRTUAL INSTRUMENT & SYSTEM INNOVATION SDN BHD (VISI) OFFICE*

19 *MEETING WITH I.R. ZAIM AT MARII*

20 *KRENOVATOR*

21 *WELCOME OUR NEW MEMBER*

22 *MIFA COOPERATES WITH SEELOZ AND MOSTI*

23 *THE FUTURE OF DIGITAL ECONOMY THROUGH 5G*

24 *MIFA SELECTED FOR PANEL IN DEPARTMENT OF STANDARDS MALAYSIA*

ARTICLES

25 *QAMARUL NAZRIN HARUN (UITM) : CYBER GEOPOLITICS: MALAYSIA'S ROLE IN SHAPING THE GLOBAL CYBER LANDSCAPE*

26 *PROF.DR.ABDUL JALIL GHAZALI: HUMNIZING TECHNOLOGY FOR SUSTAINABILITY*

27 *NURUL NAFISAH: SMART BUILDING IN THE CONCEPT OF INDUSTRY 4.0*

28 *LOVE & LAUGH GROUP REVOLUTIONIZES THE CHILD DEVELOPMENT INDUSTRY INTO A TECHNOLOGY DRIVEN ECOSYSTEM*

29 *MOHD. HAZELI BIN RASUL: ROBOT OPERATING SYSTEM (R.O.S)*

30 *CYBER GEOPOLITICS: MALAYSIA'S ROLE IN SHAPING THE GLOBAL CYBER LANDSCAPE*

31 *REVOLUTIONIZING EDUCATION FOR THE 21ST CENTURY WORKFORCE: THE DYNAMIC RELATIONSHIP BETWEEN EDUCATION AND INDUSTRY*

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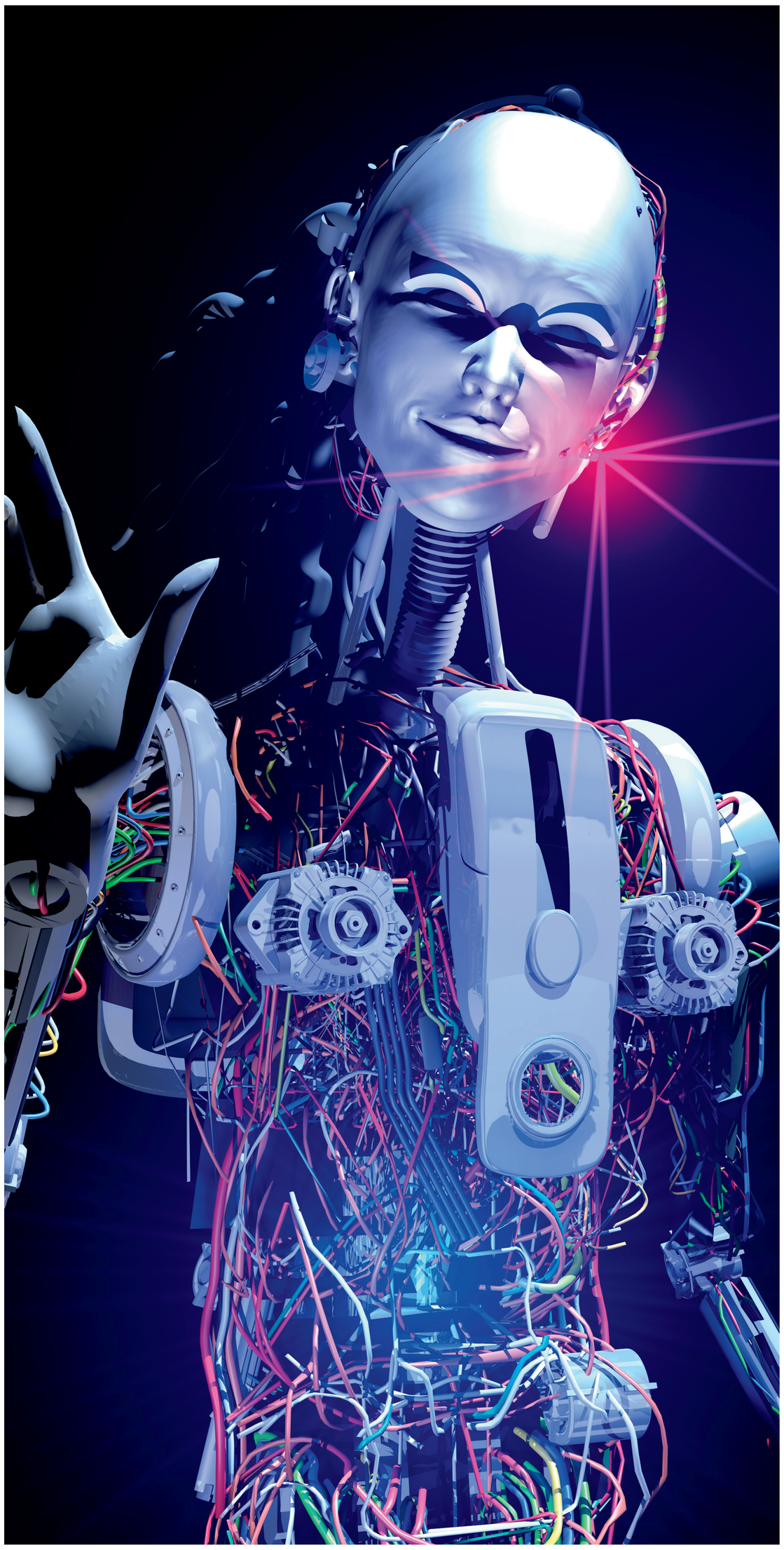
INTRODUCTION

OBJECTIVE

To be the leading community platform that provides outstanding members value relates to Malaysia Industry4WRD Policy. It will connect related stakeholders, entrepreneurs, researchers, and policymakers with a strong voice of influence on the innovation, development, and market deployment of I4.0 & IR4.0 technologies & applications while stimulating and spearheading a favorable business environment.

MISSION

- Promote adoption, usage, and governance of IR4.0 implementation.
- Deliver outstanding member's value to all key stakeholders among business communities & policy makers (govt).
- Advocate and shaping guidelines for the IR4.0 best practices.
- Generate new business opportunities, increasing collaborations among members and building professional standing.
- Build a sense of community-belonging among its members.
- Develop a comprehensive digital library or knowledge bank including successful implementation of testimony and case studies into use case scenarios.



THE PRESIDENT

FOREWORD

Assalamualaikum Warahmatullahi Wabarakatuh.

Dear Readers,

It is not too late for me to wish everyone a "Selamat Menyambut Bulan Ramdhan & Selamat Hari Raya Aidilfitri" to all our MIFA members, friends and colleagues among technologists, innovators, business owners and representatives from various government agencies. A warm welcome to our new members who have recently join us.

We all understand the importance of science, technology and innovation in our day-to-day lives and the ways in which they are transforming the world.

It is blindingly obvious now that we really need to change our way of doing things post COVID-19 pandemic. Science, technology and innovation are indispensable for our response to, and recovery from, this crisis. Equally important is our collaboration among each other in this great effort to rebuild our world from the devastative pandemic that has affected the life of almost everyone including us.

Our experience with STI for the sustainable development goals (SDG) has convinced us that it is only through multi-stakeholder and multi-lateral cooperation that we can truly accelerate progress in whatever we do. The deployment of new scientific inventions, innovations and technological solutions on a scale that will reach their target audience are equally importance. We really need policymakers, entrepreneurs, business people, financiers, diplomats and civil society t0 come together and strengthen their partnerships to face the brave new world.

It is with great hope that we will find new ideas, fresh energy and novel partnerships to sustain all our efforts in support of the sustainability development Goals (SDG) through science, technology and innovation.

I wish you all a very successful year ahead.

TS. MUHAMMAD DIDI HENDRA SHAH BIN NORHARASHID, P.TECH, CMILT

MIFA President

Managing Director of Hadi Venture Sdn. Bhd. & IOT Sata Sdn. Bhd.

CONGRATULATE MALAYSIA'S NEW MITI MINISTER

On behalf of the Malaysia Industry Forward Association, we congratulate YB Senator Tengku Datuk Seri Utama Zafrul Bin Tengku Abdul Aziz on his appointment as Minister of International Trade and Industry (MITI) of Malaysia (MIFA).

The selection of YB Senator Tengku Datuk Seri Utama Zafrul Bin Tengku Abdul Aziz to this significant position reflects his extraordinary leadership abilities and commitment to the growth of Malaysia's economy. He is the ideal candidate to managed MITI in these trying times due to his extensive financial sector expertise and in-depth knowledge of the regional economic climate. We, a group of business executives, know trade's critical role in Malaysia's economic development and sustainability. We are optimistic that with YB Senator Tengku Datuk Seri Utama Zafrul Bin Tengku Abdul Aziz in charge of MITI, Malaysia will continue improving its international competitiveness and attracting more foreign investment.

YB Senator Tengku Datuk Seri Utama Zafrul's selection as International Trade and Industry Minister will assist expedite these potential investments. MIFA wants to engage with the Ministry on industry, trade, and investment policies to identify and solve business challenges in Malaysia. We are eager to collaborate closely with him and his team to advance Malaysia's economic development and prosperity.

CONGRATULATION TO OUR SPECIAL ADVISOR

In July 2022, Datuk Wira M. Faizal was offered and accepted the post of Special Advisor to the Malaysia Industry Forward Association (MIFA), which emphasizes a connectivity platform for all stakeholders in preparing and adapting to the fourth industrial revolution (IR4.0).

We want to express our heartfelt congratulations for being selected to serve Datuk Wira Haji Muhammad Faizal Zainol as a Special Advisor to the Malaysian Industrial Development Association. We are proud that you have accepted this meaningful appointment.

You will be able to bring your unique skills and perspective to bear as a Special Advisor, and we are convinced that you will significantly advance our association. Your expertise, leadership, and experience will be crucial in assisting us in realizing our objectives and vision.

Please know that we are all eager to hear your thoughts. Your appointment is a credit to your diligence and commitment, and we believe you will succeed in your new role.

Congratulations once more.

5 COMPANY UNDER MIFA HAVE BEEN SELECTED TO RECEIVE GRANTS FROM MOSTI

A strategic project by MOSTI under the National Employment Council (Majlis Pekerjaan Negara) is the Deeptech and Futureskills Upskilling and Reskilling Program. The primary objectives are the establishment of jobs and a placement programme for 5,000 Malaysians, particularly those afflicted by the Covid-19 outbreak. Additionally, this programme trains graduates in areas including Industry 4.0.

Particularly for graduates who want to advance their careers in the field of Industrial Revolution 4.0 (IR4.0), upskilling and reskilling are essential measures. Towards that, the Malaysian Industry Forward Association (MIFA) will collaborate with several companies, including MIFA members, to implement and improve the upskilling programme.

There are five companies from MIFA members that have been selected to receive grants: Tech Capital Resources, Visi Sdn Bhd, Hadi Venture Sdn Bhd, UAS Sdn Bhd, and Maishinee Academy Sdn Bhd. Graduates from this programme should improve their competitiveness in the workforce by acquiring the most recent and pertinent skills required by the job market.

The indigenous innovation and technology sectors in Malaysia are expected to grow as a result of the selection of five MIFA firms to receive grants from MOSTI. These businesses will be able to make investments in research and development (R&D) and support the commercialization of their goods thanks to the grants from MOSTI. These businesses can develop cutting-edge goods that are distinctive and competitive on the international market with the assistance of the government.

COURTESY VISIT TO TECHUP SDN BHD BY OUR MIFA PRESIDENT & CEO MIFA ACADEMY

Techup Sdn Bhd, is one of the MIFA member , was visited by MIFA's President and CEO of MIFA Academy. The goal is to broaden their network of connections with the company's management and to gain additional insight into its path. A renowned provider of education solutions in Malaysia, Tech Up Sdn Bhd concentrates on STEM (Science, Technology, Engineering, and Mathematics) education. The company aims to make STEM education enjoyable and successful in South East Asia. To change STEM education in Malaysia, Tech Up provides a range of programmed and educational solutions to help students develop computational thinking and problem-solving skills.

To offer premium and reasonable priced educational materials in Malaysia, the business has teamed with Artec, a world leader in educational technology. Tech Up is devoted to advancing STEM education and opening it up to students from all backgrounds and ages. The company's products and programmed are developed to give students the knowledge and abilities they need to flourish in the digital age. During the visit, had a meeting with Puan Aina, the CEO of Techup Sdn Bhd, to discuss potential future partnerships between the two organisations. The brief meeting was highly beneficial in fostering a working relationship between MIFA members and the company's executives and gave both parties the chance to collaborate on projects.

As MIFA's president, also took advantage of the chance to speak with company representatives and help MIFA members as they pursue professional networks with the organisation. It is believed that through making this connection, the MIFA connectivity would grow and more opportunity for new projects will present themselves. Overall, MIFA's visit to the company was very beneficial to all parties, and it is believed that future visits would be even more beneficial.

MAJLIS PELANCARAN PELAN HALA TUJU TEKNOLOGI DI HOTEL ALOFT, KUALA LUMPUR.

"Pelan Hala Tuju Teknologi Negara" was officially launched by the Ministry of Science, Technology, and Innovation (MOSTI) to boost Malaysia's ambitions to become a technology builder while lowering dependence on foreign technology and labor. This event is being presented by MOSTI . Our Excos in Malaysia Industry Forward Association (MIFA) come to support the "Pelan Hala Tuju Teknologi Negara .

The five roadmaps cover the development of technology in the Electrical and Electronics (E&E) sector, National Blockchain Technology, Artificial Intelligence (AI), National Advanced Materials Technology, and National Robotics Technology, for the period 2021 to 2030.

Therefore The development of technology in all of these sectors is important, according to Datuk Seri Dr. Adham Baba, as Malaysia intends to become a high-technology nation by 2030. Because of this, he stated that the focus should be on inclusive local technology ecosystem development activities, such as supply and value chains, development and research, as well as commercialization and innovation so that the advancement of technology is the country's priority.

MIFA'S EXCOS VISIT TO MRANTI

Technology Park Malaysia Corporation (TPM) and Malaysian Global Innovation and Creativity Centre, (MaGIC), two organisations under the Ministry of Science, Technology, and Innovation (MOSTI), have merged to form Malaysian Research Accelerator for Technology & Innovation (MRANTI).The Malaysian Research Accelerator for Technology and Innovation (MRANTI), a research and innovation centre in Malaysia, was visited by the Malaysia Industry Forward Association (MIFA). The visit's objectives were to better understand the research and innovation activities being carried out at MRANTI and to forge deeper relationships between MRANTI and MIFA.

MIFA's Excos got the chance to speak with researchers at MRANTI and hear about the institute's active studies during the visit. Applicants also had the chance to visit research facilities with machinery and technology.Also, MIFA's Excos discussed about establishing ways to collaborate on research and innovation with MRANTI's leaders. The leaders of MRANTI responded well to the projects they established and ran under the auspices of MIFA.

The visit by MIFA's Excos to MRANTI was a significant step in improving ties between Malaysia's business and research sectors. It is envisaged that this visit will be advantageous for both parties and advance the growth of Malaysia's industry and scientific research.

VISIT KEMENTERIAN DALAM NEGERI

The president of Malaysia industry forward association (MIFA), Ts Muhammad Didi Hendra Shah and our vise president Ts. Syed Zaini Putra Al-jamalullail B. Syed Yusoff Al-jamalullail has visit Mr Sahubar Ibrahim who is Chief Assistant Senior Secretary in Development Division at Ministry of Home Affairs. The President held a meeting with a government official to discuss their respective directions in advancing the country. During the discussion, both parties exchanged views on various issues, including the future of the Malaysia's technology. In the meeting, they sought ways to strengthen cooperation and ensure that the country continues to progress in the rapidly evolving digital era.

The Ministry of Home Affairs Malaysia (KDN) is a crucial government agency that plays an essential role in coordinating and controlling various activities within the country. Its primary function is to ensure that the security, safety, and public order of the nation are well-maintained, as well as to oversee and develop the social and economic aspects of the country.

Development Division in KDN is responsible to manage, monitor and coordinate physical development projects for the Ministry and its Department and Agencies. The main objective is to ensure that physical development projects under the Ministry managed efficiently and effectively.

KDN has various functions that are aimed at achieving these goals. First and foremost, it coordinates and monitors the economic and social development of Malaysia. This includes overseeing the implementation of policies and strategies that promote economic growth and development in the country.

In addition to this, KDN is also responsible for developing and implementing strategies and policies related to domestic security. These include public safety, immigration control, road safety, and the management of prisons. By monitoring and overseeing these issues, KDN ensures that the citizens of Malaysia are protected and that the country remains secure.

Additionally, KDN keeps track of regional development around the nation and attempts to guarantee that it is coordinated with national development. By doing this, the ministry makes sure that development is fair and balanced across the nation.

Furthermore, KDN is responsible for maintaining democratic practices and monitoring general elections and matters related to public safety. The ministry also coordinates and monitors relations between the central and state governments and oversees cultural and social activities within the country.

KDN develops policies and programs aimed at improving the quality of life of Malaysians. This includes initiatives that focus on improving education, healthcare, and other social services32
Finally, MIFA intends that this gathering will provide a collaborative platform, future engagement, and information sharing about both present and emerging technologies.

MEETING WITH SME CORP HIGHER MANAGEMENT TEAM

In order to increase the competitiveness of the companies under the Malaysia Industry Forward Association (MIFA), Excos of MIFA recently visited SME Corporation Malaysia (SME Corp.Malaysia) to investigate potential collaboration options. This visit is anticipated to present a significant chance for MIFA and its members to obtain assistance and encouragement.

SME Corporation Malaysia (SME Corp. Malaysia) is the central coordinating agency (CCA) under the Ministry of Entrepreneur & Cooperatives Development (MECD) that coordinates the implementation of development programmes for small and medium enterprises (SMEs) across all related Ministries and agencies. It acts as the central point of reference for research and data dissemination on SMEs and entrepreneurs, as well as provides business advisory services for SMEs and entrepreneurs throughout the country.

On top of that, SME Corp. Malaysia also implements various programmes and initiatives under its own auspices, including its annual flagship programmes; such as the SME Annual Showcase (SMIDEX), Enterprise 50 (E50) Award, and Entrepreneurship andSME Week.

Thus, the meeting with the SME CORP top executives was insightful and successful. The team offered constructive input and suggestions based on MIFA's knowledge of emerging technologies and shared important information about the company's objectives and plans. MIFA hopes this association will continue growing and producing successful outcomes for all involved and Malaysian industries. Appreciate the chance to meet and look forward to our subsequent events.

NDA SIGNING BETWEEN KOPERASI BELIA ISLAM MALAYSIA BERHAD (KBI) & MALAYSIA INDUSTRY FORWARD ASSOCIATION (MIFA)

On the 24th of March 2023, a Non-Disclosure Agreement (NDA) was signed between Koperasi Belia Islam Malaysia Berhad (KBI) and Malaysia Industry Forward Association (MIFA). The purpose of the NDA is to protect confidential information shared between the two organizations and to establish guidelines for the handling of such information.

Founded on May 31, 1977, Koperasi Belia Islam Malaysia Berhad (KBI) is a cooperative organisation recognised under the Cooperative Act (1993) with registration number 16/31.5.77. Angkatan Belia Islam Malaysia (ABIM), an Islamiyyah movement that wished to create an Islamic financial institution, was the driving force behind the founding of KBI. Islam and secularism clashed during that period (the 1970s), and even at that time, the level of acceptance of Islam in the community was still quite low.

In the fast-evolving world of Industry 4.0, staying ahead of the curve in terms of technological advancements and skilled labor is crucial for any organization's success. This is where MIFA comes in as a strategic partner, offering a wide range of expertise and services that encompass the entire scope of cooperation, training, upskilling, and reskilling in the field of technology.

MIFA has a team of experts and strategists who are well-equipped to collaborate in providing skilled manpower, skill enhancement programs, and training for KBI professionals in the field of IR4.0. With its comprehensive range of services and solutions, MIFA can help organizations to strengthen their workforce and achieve their business objectives.

In terms of training, MIFA's experts can provide a range of programs that cater to different levels of expertise, from basic to advanced. Whether it is through classroom-based learning or hands-on practical training, MIFA's training programs are designed to equip participants with the necessary skills and knowledge to succeed in the field of IR4.0.

When it comes to cooperation, MIFA's approach is to work closely with its partners, taking the time to understand their specific needs and challenges. By doing so, MIFA can tailor its solutions and services to ensure that they are fully aligned with its partners' goals and objectives.

Furthermore, MIFA's expertise in upskilling and reskilling can help organizations to bridge the skills gap and ensure that their workforce remains relevant and competitive. This is particularly important in the fast-paced world of IR4.0, where new technologies and innovations are constantly emerging, and where organizations need to be agile and adaptable to stay ahead of the curve.

In summary, MIFA is a strategic partner that can provide a wide range of expertise and services in the field of IR4.0, encompassing cooperation, training, upskilling, and reskilling. With its team of experts and its comprehensive range of solutions, MIFA is well-positioned to help organizations achieve their business objectives and stay ahead of the curve in the fast-evolving world of Industry 4.0.

MEETING WITH YBM DATO' SRI DR ADHAM BABA AND MIFA MEMBER

On a recent day, there was a meeting held between YBM Dato' Sri Dr Adham Baba, the Minister of Science, Technology and Innovation in Malaysia, and members of the Malaysia Industry Forward Association (MIFA), along with representatives from various agencies such as CRADLE, MTDC and MOSTI. The discussion focused on the MOSTI grant for future technology and how the Ministry of Science, Technology, and Innovation (MOSTI) is working towards making Malaysia a high-tech nation through science, technology, innovation, and economy.

The meeting also discussed past and future collaborations to ensure that Malaysia achieves its target of becoming a developed nation by 2030. The minister was pleased to have the opportunity to meet with many Excos MIFA and get to know them better. During the National Innovation Day event organized by MOSTI, the Minister also wanted to get to know MIFA more closely. Excos MIFA also had the chance to introduce their company's products and services during the meeting, making it a valuable and fruitful experience for all.

This was the first meeting between MIFA and the Minister, and the members felt fortunate to have been given this opportunity. With the support of MOSTI and other agencies, MIFA looks forward to continuing their efforts to contribute towards Malaysia's goal of becoming a high-tech nation and achieving development by 2030.

MIFA WERE INVITED TO THE LAUNCH EVENT OF DASAR TENAGA NEGARA 2022 (DTN 2022)

MIFA, the Malaysia Industry Forward Association, was recently invited to the much awaited Dasar Tenaga Negara 2022 inaugural ceremony (DTN 2022). The new energy strategy for Malaysia, which aims to steer the nation's energy sector towards a sustainable and efficient future, was unveiled during this occasion.

MIFA's participation in the occasion as a well-known industry group was essential in emphasising the significance of the private sector's involvement in the nation's energy transition. Leading businesses from a variety of industries are among the association's members, and they were able to share their knowledge and expertise in supporting sustainable energy practises.

The launch event also provided MIFA with a valuable opportunity to network and establish new partnerships with other organisations and stakeholders in the energy sector. By cooperating to achieve a common objective, MIFA and its associates may significantly contribute to the future sustainability and efficiency of Malaysia's energy sector.

Overall, MIFA's involvement in the DTN 2022 launch event marked a key turning point in the association's initiatives to advance sustainable energy practises in Malaysia. It proved the company's dedication to bringing about positive change in the nation's energy sector and its readiness to work with other stakeholders to achieve this.

SMART NATION EXPO AT MITEC

Malaysia Industry Forward Association (MIFA) has taken the opportunity to showcase its capabilities and promote its member companies at the Smart Nation Expo 2023, which is being held for three days. The largest exhibition in Southeast Asia will be hosted at the Malaysian International Trade Exhibition Centre (MITEC) from September 19–21, 2023, and will serve as a crucial regional platform for stakeholders with breakthrough smart technology and solutions providers. The event provides a platform for businesses to demonstrate their innovative solutions, technologies, and services that can contribute to the development of smart cities and digital transformation.

Under the umbrella of MIFA, several companies are participating in the exhibition, including ProStrain Technologies, Iot Sata, and Armiena Group. ProStrain Technologies specializes in adopting IR 4.0 as part of design philosophy and also in Industrial Automation and custom-made testing machines. Iot Sata, on the other hand, provides Internet of Things (IoT) solutions and services, including sensor networks, data analytics, and cloud computing. Meanwhile, Armiena Group is a leading provider of help by bringing technology solutions that enable enterprises to become more productive and efficient while spending less, staying relevant and successful along with technology adaption.

Through their participation in the Smart Nation Expo 2023, MIFA and its member companies seek to raise awareness of their capabilities, forge partnerships, and explore new business opportunities. The event provides an excellent platform to showcase its innovations and solutions to a diverse audience of industry experts, government officials, and potential customers.

In conclusion, MIFA's participation at the Smart Nation Expo 2023 and that of its member companies, ProStrain Technologies, Iot Sata, and Armiena Group, demonstrate Malaysia's dedication to creating a dynamic and forward-thinking industry that can support the growth and development of the nation's economy.

GLOBAL MARKET-FIT PROGRAM WITH MRANTI AT JAKARTA

The program by MRANTI is an excellent opportunity for MIFA and Malaysian entrepreneurs who are looking to penetrate the Indonesian market. The program includes a visit to various technology companies and agencies, as well as creative spaces like XS Space and UIN - Islamic University Jakarta. Additionally, the program offers an opportunity to visit MATRADE JAKARTA's office and meet with like-minded individuals from the industry.

As a result of the program, entrepreneurs will be able to gain a better understanding of the Indonesian technology market, including the industry's trends, practices, and challenges. They will also be able to expand their professional network in the region, which could lead to new business opportunities.

During the program, participants will have the opportunity to visit various locations in Jakarta, including Ruang dan Tempo Office at Palmerah, Sarinah Shopping Mall, and Midpoint Place Business Centre. These visits are designed to help participants gain a better understanding of the local culture and customs, which could be beneficial when doing business in the country.

In addition to site visits, the program will also include events such as industry roundtables and business discussions between companies from both countries. These events will provide an opportunity for participants to engage in meaningful discussions about the industry's current state and future outlook, as well as learn from each other's experiences.

One of the highlights of the program is the opportunity to visit MATRADE JAKARTA's office. As an agency of MITI Malaysia, MATRADE JAKARTA is well-connected and can provide valuable insights into the local market. Participants will be able to learn more about the agency's role in supporting Malaysian businesses in the region and the services it provides to help entrepreneurs succeed in the Indonesian market.

Overall, the program recommended by MRANTI is an excellent opportunity for Malaysian entrepreneurs to learn more about the Indonesian technology market. By participating in the program, entrepreneurs will be able to take advantage of new business opportunities in the region and establish themselves as key players in the Indonesian technology industry.

MALAYSIAN TECH STARTUPS WITH MRANTI-KUMPUL AT KOMINFO

KOMINFO is a Ministry of Communication and Information Technology" in Jakarta, Indonesia. It is a government ministry in Indonesia responsible for formulating and implementing policies in the fields of telecommunications, informatics, and broadcasting.

One of the main advantages of MRANTI-KUMPUL is its close partnership with the Ministry of Communications and Multimedia (KKMM) and the Ministry of Science, Technology and Innovation (MOSTI). This partnership enables MRANTI-KUMPUL to tap into the expertise and resources of these two ministries, which can be instrumental in helping startups overcome the various challenges they face when launching and scaling their businesses.

Furthermore, the support provided by MRANTI-KUMPUL goes beyond mere financial assistance, it also offers training, mentorship, networking opportunities, and access to markets, which are essential for the growth of any startup.

MRANTI-KUMPUL is playing a crucial role in the development of Malaysia's tech startup ecosystem, by providing support and resources to startups across a range of sectors. It is a significant advantage, and its focus on diversification and innovation is helping to drive growth and transformation in the Malaysian market.

INDUSTRY VISIT TO SIEMENS CITY IN VIENNA AUSTRIA

The new Siemens location in Vienna, Austria is a modern structure comprising office, meeting, and training spaces, as well as dining amenities. The office towers are linked by a system of glass atriums (the "communication line").

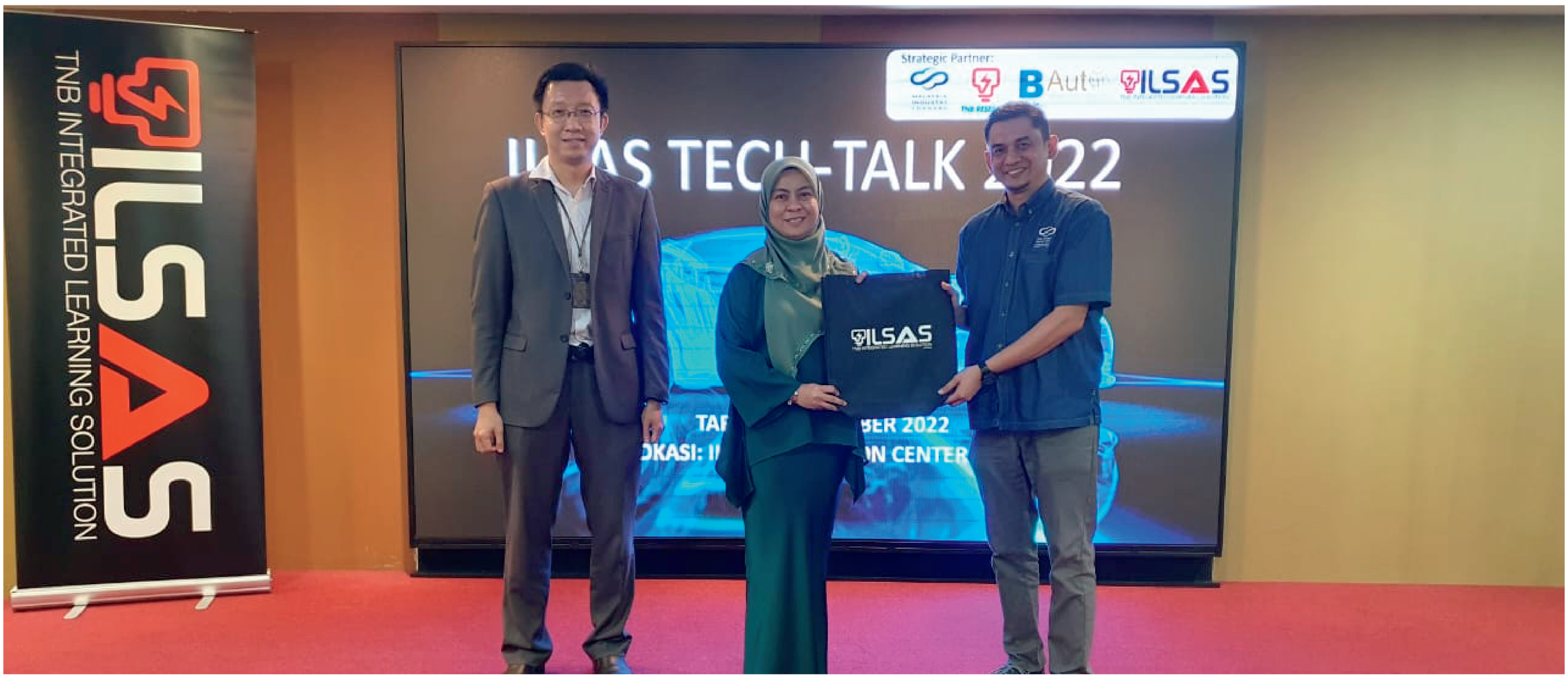
Several businesses associated with the Malaysia Industry Forward Association (MIFA) have been chosen to attend the 2022 Vienna, Austria, International Machinery Forum. On November 14–18, 2022, Avantage Austria will host the occasion. More businesses are anticipated to be chosen for business matching after this first visit to the event.

The participants in the event will have access to numerous informative forums and speeches. This is an excellent opportunity for businesses to broaden their network of contacts abroad and advertise their goods internationally.

Businesses will also be able to learn more about the most recent business trends and technological advancements that can help boost operational effectiveness and competitiveness during this visit.

This visit is anticipated to benefit the chosen companies greatly and have a substantial impact on Malaysia's industry as a whole.

ILSAS TECH TALK 2022



In today's fast-paced world, the importance of training and development cannot be overstated. As businesses and industries evolve and innovate, it is crucial that employees keep up with the latest developments and technologies in their respective fields. This is especially true in the power industry, where safety and efficiency are paramount.

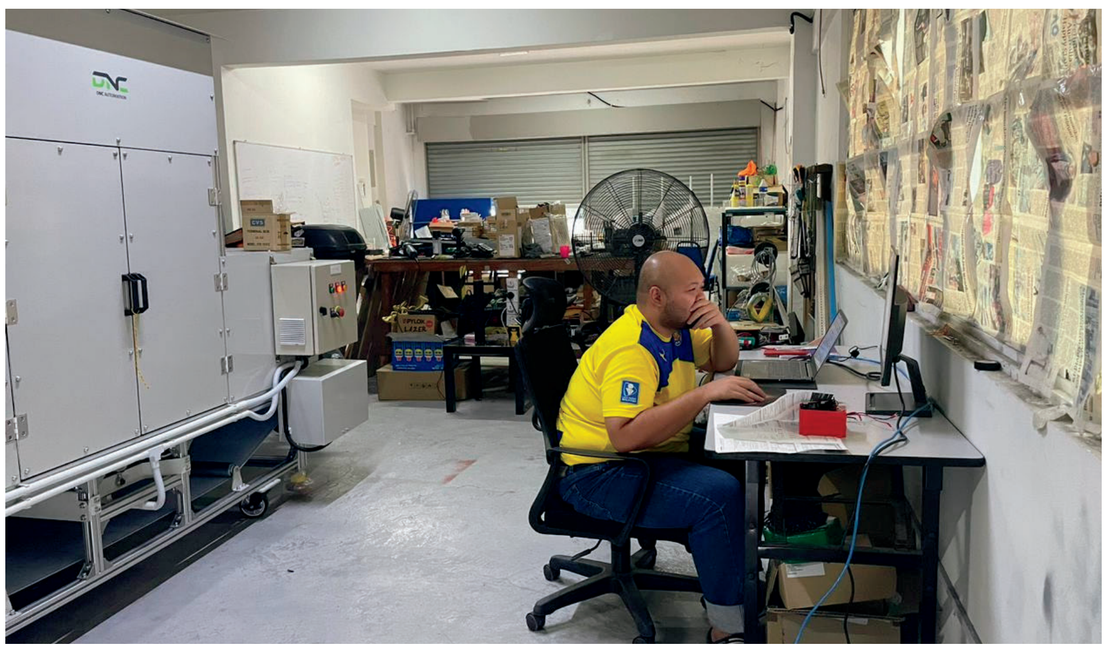
To ensure that their employees are equipped with the necessary skills and knowledge, Tenaga Nasional Berhad (TNB) has established the Institute of Leadership and Development (ILSAS) as its training center. ILSAS provides comprehensive training and development programs to TNB employees, ranging from technical skills to leadership and management.

Recently, Malaysia Industry Forward Association (MIFA) had the opportunity to participate in ILSAS Tech Talk 2022, an event organized by ILSAS to showcase the latest technological advancements in the power industry. The event aimed to provide a platform for industry experts to share their knowledge and experiences and for participants to network and build relationships.

For MIFA, this event was an opportunity to explore potential collaborations with ILSAS and other industry players. By attending the event, MIFA could identify areas where they could contribute to the development of the training center and enhance the quality of training provided to TNB employees. By collaborating and sharing knowledge, businesses and industries can achieve greater efficiency and effectiveness.

In conclusion, ILSAS Tech Talk was a valuable event that provided insights into the latest technological advancements in the power industry and highlighted the importance of building relationships and networking. For MIFA, the event was an opportunity to explore potential.

COURTESY VISIT TO VIRTUAL INSTRUMENT & SYSTEM INNOVATION (VISI) OFFICE



Encik Shazlan is the Managing Director of Virtual Instrument & System Innovation SDN BHD (VISI). Virtual Instrument & System Innovation Sdn. Bhd. or VISI Group of Companies, is an engineering system developer and integrator company. It can help to find a way to control and gain data on business performance through a digitalization platform. VISI connect all those subsystems into a single-layer system that functions as one to allow the industry to control & monitor the business.

With its subsidiaries, VISI penetrated several vital industries, including manufacturing, oil & gas, agriculture, aerospace, and academic. What makes its stand up among other providers, VISI has been awarded the silver status by NI for the alliance partners and will be focusing on utilizing software and hardware tools from National Instruments (NI). Recently, the President and Excos from Malaysia Industry Forward Association (MIFA) made a courtesy visit to the training lab and workshop of Virtual Instrument & System Innovation company. This visit was aimed at seeing the overall operation of the company and exploring possible areas of collaboration between MIFA and the company. During the visit, the President and Excos MIFA were given a tour of the company's facilities and shown how the company's virtual instruments and systems work. They were also given a presentation on the company's research and development efforts and how the company is driving innovation in the industry.

The visit was an opportunity for MIFA to gain insights into the latest technology trends and how companies like VISI are leveraging these trends to deliver value to their customers. MIFA also had the chance to interact with the company's management team and discuss possible areas of collaboration between MIFA and the company.Overall, the visit was a success, and both parties expressed interest in exploring possible areas of collaboration in the future. The President and Excos MIFA commended Virtual Instrument & System Innovation for its.

MEEETING WITH IR. ZA'IM AZYZE AT MARII

Malaysia has been making significant strides in advancing its technology and innovation capabilities in recent years. This has been fueled by the government's efforts to encourage and support local businesses and organizations to embrace technological advancements, particularly in the automotive industry. As such, the President and several members of the Malaysia Industry Forward Association (MIFA) recently visited the Malaysia Automotive Robotics and IoT Institute (MARII) in Cyberjaya, Selangor, intending to explore opportunities for collaboration to enhance Malaysia's technological achievements further.

INSTITUT AUTOMOTIF ROBOTIK DAN IoT MALAYSIA
MALAYSIA AUTOMOTIVE ROBOTICS AND IoT INSTITUTE

The visit to MARII was an essential step for MIFA, as it allowed them to introduce their organization and explore potential areas of cooperation with MARII. As a leading institution in the automotive industry, MARII is recognized for its cutting-edge research and development initiatives in the field of automotive robotics and the internet of things (IoT). This expertise and MIFA's experience and resources could lead to groundbreaking advancements in Malaysia's technology sector.

One of the main goals of the visit was to meet with IR Zaim, the senior general manager at MARII. This was an excellent opportunity for MIFA to discuss their vision for the future of technology in Malaysia and explore potential areas of collaboration. IR Zaim's expertise in the field of automotive robotics and IoT could be invaluable to MIFA, particularly in the areas of research and development.

The visit to MARII also provided MIFA with an opportunity to gain a deeper understanding of the challenges and opportunities facing the automotive industry in Malaysia. The members were given a tour of the facility, which allowed them to witness firsthand the cutting-edge research and development initiatives that MARII is working on. This experience will undoubtedly inform MIFA's own efforts to develop and implement innovative solutions in the automotive industry.

Overall, the visit to MARII was a significant step forward for MIFA in its efforts to promote technological advancements in Malaysia. By meeting with IR Zaim and exploring potential collaboration areas, MIFA can leverage MARII's expertise to enhance its initiatives further. Moreover, the visit allowed MIFA to gain valuable insights into the challenges and opportunities facing the automotive industry in Malaysia, which will inform their own efforts to promote innovation and progress. As Malaysia continues to make strides in technological advancements, partnerships such as this between MIFA and MARII will be crucial in driving the country's progress in the automotive industry and beyond.

KRENOVATOR WIN AT SUPERB NETWORKING DAY 2022

The Malaysia Industry Forward Association (MIFA) is pleased to offer Krenovator, a Malaysian software development company and one of our valued members, our deepest congratulations on their great success at Superb Networking Day 2022. We are tremendously delighted to have Krenovator as a member of MIFA and to see them receive this well-deserved honor.Krenovator is a platform and social venture for AI tech talent that supports the growth of the hard and soft skills needed by the tech industry, particularly by software engineers and those aspiring to become software developers.

The accomplishments of Krenovator at Superb Networking Day 2022 are evidence of their unwavering dedication to quality, innovation, and client happiness. Being a software development firm, Krenovator has continually shown their technical know-how, innovation, and passion for providing their clients with great software solutions.

Krenovator, a member of MIFA, exemplifies our objective to enable Malaysian businesses to prosper and expand by encouraging a culture of innovation, cooperation, and continual improvement. We feel privileged to have Krenovator as a part of our network of progressive and forward-thinking business owners.The triumph at Superb Networking Day 2022 is evidence of Krenovator's perseverance, commitment, and creative spirit. It is a testament to their dedication to offering first-rate software solutions that satisfy their customers' demands and go above and beyond their expectations. We think Krenovator's success will motivate other MIFA members to pursue excellence, innovation, and teamwork in their own enterprises.

MIFA extends its congratulations to Krenovator once more for their outstanding performance at Superb Networking Day 2022. We are sure that this triumph will help them soar to new heights of growth and achievement. We will keep encouraging and supporting one another as an entrepreneurial community so that we may create, work together, and accomplish amazing things.

WELCOME TO OUR NEW MEMBER

Welcoming a new member to an organization is always an exciting moment, and we at Malaysia Industry Forward Association (MIFA) are delighted to extend a warm welcome to our new members, Love and Laugh, Aeronerve Malaysia, Shopee Gram, and Move Robotic. We are thrilled to have these innovative and dynamic companies join us and contribute their expertise to our association.

As a leading industry association, MIFA has always been dedicated to promoting growth and development within the Malaysian technology community. We have consistently strived to foster collaboration, innovation, and excellence among our members, and we are confident that our new members will enhance our efforts.

Love and Laugh desires to be the daycare that follows closely every little milestone of young children and ensuring they are blooming in the best way possible. Aeronerve is a Malaysia's leading drone based remote sensing service provider operate by Technerve Technology Solutions Sdn. Bhd. while Shopee Gram is an e-commerce platform that has made a significant impact in the region. Move Robotic is a company that focuses on automation and robotics technology.We are excited to work alongside these innovative and dynamic companies and learn from their expertise in their respective fields. We believe that their participation in MIFA will help us to continue to push the boundaries and elevate the industry in Malaysia.

As our new members settle in, we look forward to getting to know them better and building strong partnerships that will benefit all our members. We hope that they will take advantage of the many benefits of being a part of MIFA, including access to valuable resources, networking opportunities, and industry insights.

Once again, we extend our warmest welcome to Love and Laugh, Aeronerve Malaysia, Shopee Gram, and Move Robotic. We look forward to collaborating with them and achieving greater heights together as part of the MIFA family.

MIFA COOPERATES WITH MOSTI AND SEELOZ

Seeloz was founded to use artificial intelligence to help businesses improve their supply chains. It is dedicated to the potential of sustainable and ethical profitability and has a portfolio of automation technologies to empower supply chains across Verticals. Their mission is to assist businesses in creating value in their supply chains by controlling and leveraging the power of artificial intelligence.

A historic Memorandum of Understanding (MoU) between Microsoft Malaysia and Seeloz aims to promote and enhance Malaysia's main industries of "manufacturing, oil and gas, utilities, palm oil, and public services.

Recently, Seeloz, MOSTI, Microsoft Malaysia and MIFA established a cooperation to use artificial intelligence (AI) to improve supply chain efficiency in Malaysia. By analyzing massive volumes of data and offering valuable insights. The alliance intends to assist businesses in Malaysia in streamlining their supply chain operations, lowering costs, and boosting profitability by leveraging the potential of AI.

One of the main advantages of this relationship is the capacity to analyze massive amounts of data in real time, which enables businesses to make better decisions regarding their supply chain operations. This covers everything from demand forecasting and inventory control to logistics and transportation planning. Seeloz can assist firms in locating possible supply chain bottlenecks and streamlining their operations by utilizing AI-based algorithms and predictive analytics.

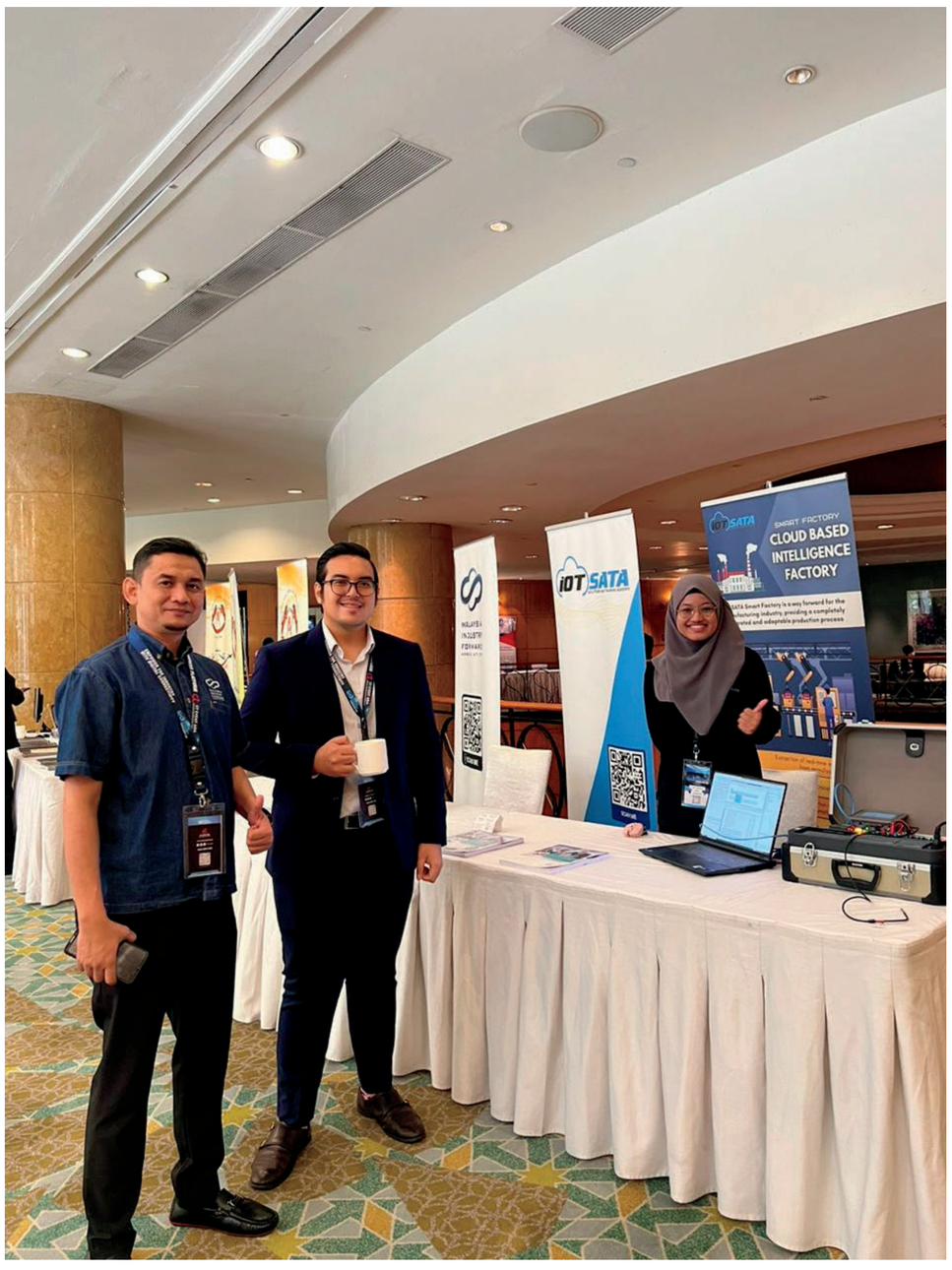
Overall, the collaboration between MIFA, MOSTI, and Seeloz gives a fascinating chance for businesses in Malaysia to leverage the potential of AI and enhance their supply chain operations. By utilizing cutting-edge technologies and predictive analytics, businesses can build supply chains that are more effective, flexible, and profitable, which will support Malaysia's economic growth and development.

THE FUTURE OF DIGITAL ECONOMY THROUGH 5G

By establishing a booth at the event The Future of Digital Economy Through 5G, MIFA is honoured to have the chance to promote MIFA.The future of the digital economy looks promising with the adoption and integration of advanced digital technologies such as fifth-generation (5G) mobile networks, the Internet of Things (IoT), and cloud computing. The 7th-8th February 2023 conference, "Empower the Industry with Digital Connectivity," held at the Mandarin Oriental Kuala Lumpur, will be an opportunity to discuss the potential impact of 5G technology on the digital economy.

It is important to note that the claims linking 5G with COVID-19 have been dismissed. The focus should be on the practical implications of 5G technology for industry digitization and automation. 5G networks must be widely available, affordable, and able to support emerging technologies. The adoption of 5G networks will bring several potential benefits and challenges for industries such as IoT, automotive, manufacturing, smart grids, smart cities, and healthcare.The relationship between 5G networks and IoT applications is crucial for the future of the digital economy. The government and private sector must work together to provide access to 5G networks to ensure high-speed broadband access is ubiquitous and equitable for marginalized groups. Adopting 5G networks will create new business opportunities and increase the industry's competitiveness in the country.

In conclusion, 5G networks have the potential to revolutionize the digital economy, creating new business opportunities and increasing the competitiveness of the industry. The adoption of 5G networks will bring several potential benefits and challenges for industries such as IoT, automotive, manufacturing, smart grids, smart cities, and healthcare. The government and private sector must work together to provide access to 5G networks to ensure that high-speed broadband access is ubiquitous and equitable for marginalized groups. The 7th-8th February 2023 conference, "Empower the Industry with Digital Connectivity," held at the Mandarin Oriental Kuala Lumpur, will be an opportunity to discuss the potential impact of 5G technology on the digital economy.



MIFA SELECTED FOR PANEL IN DEPARTMENT OF STANDARDS MALAYSIA

JABATAN STANDARD MALAYSIA

MALAYSIA INDUSTRY FORWARD ASSOCIATION

The Malaysia Industry Forward Association (MIFA) participated on a panel in Janbatan Standard Malaysia, which is an achievement for MIFA. With trustworthy standardisation and accreditation services for international competition, the Malaysian Standards Department, a National Standards Body and National Accreditation Body provide entire confidence to interested parties. The standards division in Malaysia creates norms in several fields, including ISO and others, particularly in intelligent technology.

The purpose of the Department of Standards Malaysia is to function as the National Standards Body and National Accreditation Body in Malaysia. Their mission is to provide credible standardization and accreditation of conformity assessment services to help Malaysian products and services be competitive globally, support government policy makers and regulators, and advance the quality of life of Malaysians.

The department develops and promotes Malaysian Standards and accredits conformity assessment bodies. They operate under advisory committees such as the Malaysian Standards and Accreditation Council (MSAC) which advises on standardization and accreditation. The primary task of Standards Malaysia is to assess and accredit conformity assessment bodies (CABs).

The Malaysia Industry Forward Association (MIFA) being selected for a panel in the Department of Standards Malaysia is a positive step towards the future of the industry. MIFA is expected to advocate for and shape guidelines for Industry 4.0 and IR 4.0 best practices and technology standards. This is in line with the national policy of Industry4WRD, which aims to transform Malaysia's manufacturing sector and related services. With their expertise and experience,

MIFA can contribute to the development of new business opportunities and help increase the competitiveness of the industry in the country. Overall, the future outlook for the industry is positive, and MIFA's involvement in shaping the standards and practices will help in the growth and development of the industry in Malaysia.

Last but not least, it is hoped that it will be able to advocate for and shape guidelines for Industry 4.0 and IR 4.0 best practices and technology standards. It is aligned with the national policy of Industry4WRD, which aims to transform Malaysia's manufacturing sector and related services. With their expertise and experience, MIFA's leaders can contribute to developing new business opportunities and help increase the industry's competitiveness in the country.

TS. SYED ZAINI PUTRA AL-JAMALULLAIL B. SYED YUSOFF AL-JAMALULLAIL
Director at T-Robot Sdn Bhd
Vice President MIFA

MALAYSIA INDUSTRIAL ROBOTICS LANDSCAPE AND CHALLENGES

Malaysia has made remarkable progress in terms of its economic growth and competitiveness since it gained independence in 1957. The contributing factor can be attributed to the economic policies launched every 10-20 years, which have been laid down on the foundation of the global trend and economic phase of the country. Plotting through its vision of being a developed nation by 2050, Malaysia has proved significant achievements, specifically in the manufacturing and services factor, thanks to its series of Industrial Masterplans and New Economy Policy. The current global wave of the fourth industrial revolution on the other hand has also positively impacted Malaysia, especially the local industries. Increasing ease in manufacturing and services processes arising from autonomous mechanization makes mass customization possible and increases productivity. Looking to the distant future, Malaysia has proved its readiness to embrace the revolution as a developing country, as cited by the World Economic Forum where Malaysia is the 34th country in the international competitiveness ranking. The Malaysian government has been putting a massive emphasis on the development of science, technology, and innovation (STI) and productivity in general through various government policies. Robotics and automation, on the other hand, plays an integral role in these two aspects in the sense that; robotics is a product of science, technology, and innovation, especially in the wake of Industrial revolution 4.0, and robotics has been proven to be one of the main elements that provide a solution to the issues and challenges faced by the main industry in Malaysia, i.e. the manufacturing sector (productivity, labour and cost). Based on Malaysia market research, robotics and automation companies in Malaysia can be categorized as follows:

1. Robotics and automation developer
2. Robotics and automation component
3. Robotics and automation system integrator
4. Robotics and automation for service and edutainment
5. Robotics and automation software and services

Special characteristics of Malaysia robotics and automation consumer market and market potential :

- Highly skilled manpower for research and development, and engineering design activities.
- A mature engineering supporting industry for the outsourcing of parts and components, and engineering services.
- Attractive incentives for the manufacturing and assembly of high technology and specialised robotics and automation machine makers.
- A strategic gateway to the ASEAN market which has a combined population of more than 600 million people and total GDP of US$2.31 trillion for 2013.
- Well-developed infrastructures including excellent land, sea and air connectivity, and integrated telecommunication systems.

Although there are numerous strategies that are typically used as market entry strategies into Malaysia such as exporting, franchising, licensing, and strategic alliance, most exporters find that using a local distributor or agent is the best first step for entering the Malaysian market. A local distributor is typically responsible for handling customs clearance, dealing with established wholesalers/retailers, marketing the product directly to major corporations or the government, and handling after-sales service. Exporters of services generally also benefit from the use of local partners.

Challenges among SMEs

It is a big challenge to promote the adoption of robotics not only to the major companies that have readily utilized robots in their manufacturing process but also to the medium and small-scale companies. According to industry players for the robotics sector market in Malaysia, these companies generally are aware of the global trend of automation and of Malaysia's government policies and incentives to promote technological adoptions. However, only 30 percent of these companies have started to invest and leverage modern technology. Therefore, it is important to convince these SMEs of the tremendous possible improvement

HUMANIZING TECHNOLOGY FOR SUSTAINABILITY

AN EDUCATION PERSPECTIVE

PROF. DR ABDUL JALIL GHAZALI
SVP Industrial Linkages & Entrepreneurship
Management & Science University

United Nations Brundtland Commission defines sustainability as “meeting the needs of the present without compromising the ability of future generations to meet their own needs.” Sustainability is a societal goal that relates to the ability of people to safely co-exist. It is commonly described as having three dimensions: environmental, economic, and social. Thus, sustainability is often proposed as a long-term goal for a more sustainable world that is achievable through sustainable development as the mechanism or processes to achieve it.

Key to achieving these goals is to plant the seeds of sustainable development to educate the young generations at all stages of education. It is then imperative that the education ecosystem must adopt the latest technology and incorporate sustainable development education as part of its larger goals in building a responsible society. Education providers have the advantage of planting these seeds to promote and engage learners through various learning modules, learning experiences off the classroom education and active engagement with the society and stakeholders. Collaborative initiatives with industry partners via Corporate Social Responsibility (CSR) programs provide the platforms in enriching this ecosystem.

Technology has always been a key pillar in the advancement of education for sustainability. We have seen during the pandemic period that online learning has been accepted as a mainstream learning mode as compared to prior to pandemic.Technology has allowed the education ecosystems to sustain without the physical presence of students at campus premises. Post-pandemic, the hybrid learning model has become an accepted mode of learning by most education providers. Technology has allowed accessibility to education beyond the typical physical and national boundaries.

In addition, digital learning platforms provide scalability that was previously restricted by the old paradigm that education can only be delivered through face-to-face. With scalability the cost of education can be made more affordable and accessible by the society. The sharing of learning materials through collaborations among education providers also creates a sustainable model that enables each institution to focus on their expertise and cross-share learning modules within a common platform. Knowledge is no longer exclusive to the privileged but still the economic challenged society have lesser access to knowledge. This is where corporations can play their roles through their CSR programs to sponsor open learning platforms and devices with the less privileged communities.

Often the social perspective of sustainability is less focussed unlike its environmental and economic perspectives. Technology is a double-edge sword. With affordable access to and high adoption of technology, compounded by the minimum physical interactions during pandemic, we ironically are living in a social paradox world of highly connected but disconnected society. Serious attention needs to be given to the implication of technology in shaping the mindsets and values of future generations that are crucial in sustaining a sustainable world. The ability to self-learn made available via multiple technology platforms provides opportunities to learners at a very young age to explore unlimited information and knowledge at their fingertips. These access to information planted the early seeds that shape the thinking and values of the young minds. With contents readily available and often pushed across various social media such as Facebook, Instagram, TikTok, YouTube, children at a very young age are exposed to information that at times they have not reached to their ability to comprehend and make judgements.

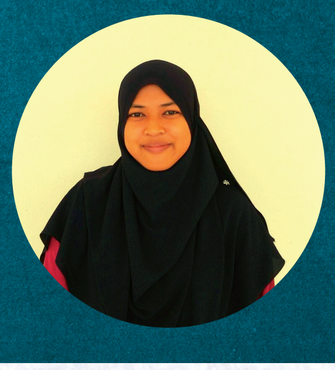
Social media have become the mainstream tools to communicate. Unlike face-to-face communication, there is no limit to what one can express, write, upload, download and share. Cyber bullying, fake contents, unauthorized use of personal data, hacking and scams are becoming rampant. Compounded by the stress of post-pandemic social and economic issues, mental health has now become a primary concern. It is imperative that education and technology providers in tandem with government agencies implement strategic programmed to manage and counter these issues.

New technologies via blockchain technology and metaverse combined with specific devices have brought virtual reality to a higher level of user learning experience.Different sensations can now be evoked to ensure maximum impact to learners. Designs can be perfected prior to physical construction; virtual dissection enables medical students to practice prior actual clinical experience and risk analysis can be simulated via predictive models. These technologies enable education providers to optimize their resources without compromising the quality of education.

Artificial intelligent (AI), machine learning and other programmable technology have now allowed machines to deliver and push contents based on user behavioral patterns. It is here that content providers and software developers need to have certain degree of responsible governance and be socially responsible in the development and promotion of contents to ensure that unhealthy social behavior's are not ‘implanted’ which can put the society at risk in the long term. It’s a tough call as what is and is not acceptable vary by the standards the society belongs to. Values are subjective. When the economic rewards are too attractive, placing a balance on what’s good for society is a tough call.

The advancement of intelligent writing software that can provide unlimited articles with just a few simple instructions is now becoming a potential challenge to education providers. Are articles generated within minutes through intelligent software or results of students’ research? The ‘easy-way-out’ approach encourages plagiarism and may devoid the students from acquiring lifelong learning skills such as critical thinking, research skills, collaborative, and communication skills (achieved through group projects), presentation skills and teamwork.

As such, humanizing technology is an approach that all stakeholders need to adopt to ensure that technology is value-driven not only for economic benefits but to develop a sustainable ecosystem that benefits the society.



NURUL NAFISAH BT KAMIS
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SMART BUILDING IN THE CONCEPT OF INDUSTRY 4.0

A smart building is a building that uses technology to enable efficient and economical use of resources while creating a safe and comfortable environment for people. While Industry 4.0 is related to the “fourth industrial revolution” which is the transformative era of technological advancement where automation is increasing, the need for hands-on human interaction is decreasing and data is used for enabling business and industry to grow and change at an unprecedented rate.

The advance of Industry 4.0 boost-up and significantly change the concept and idea of smart buildings which has been around for several years but is not commonplace across the board. Now automation is not the only main idea in the smart building concept. Integral of Internet of Things (IoT) sensors, building management systems, artificial intelligence (AI), and augmented reality are among some of the mechanisms used in smart building to control and optimize its performance. The ways of buildings are designed, constructed, operated, and maintained has changed by implementing smart sensors and systems to allow the system to communicate with each other and collect data to analyze and optimize the management system.

Benefits of Smart Building

The proper smart system and associated Industry 4.0 technology give the building managers access to the previous amount of data that can be beneficial in the future. Here are the main benefits of smart building implementation:

1.Reduced Energy Consumption
Smart building system helps in improve energy efficiency by reducing the need for unnecessary consumption of energy in the building. The smart building should be designed to consume and use energy at a minimum level and avoid waste of energy in unnecessary area. Data collected in the smart building system can be used to identify the loophole and finally optimized the building management system.

2.Reduced Operating Cost
Optimized energy consumption can lead to reducing the operating cost of the building management. This will reduce the building overhead by identifying patterns around under-utilized spaces and predicting the maintenance for the system.

3.Increased Productivity
Socially, a smart building can increase productivity and improve the efficiency of the occupants. The concept of a smart building is to identify and understand how people used and move around the building so the owner can improve the physical layout towards optimization of frequented space while minimizing waste. The building will operate smartly for the people and improve their efficiency in work.
Finally, the smart building uses a wide range of existing technologies. It is designed or retrofit in a way that allows for the integration of future technological development and network and internet become a core in establishing the system.

MOHD SHAHRULNIZAM ABD HAMID
Founder & CEO
Love & Laugh Group

LOVE & LAUGH GROUP REVOLUTIONIZES THE CHILD DEVELOPMENT INDUSTRY INTO A TECHNOLOGY DRIVEN ECOSYSTEM

Love & Laugh Group pushed boundaries by launching the Love & Laugh Ecosystem during the Dubai Expo 2020 on 17 February 2022. It is anchored on five primary pillars:

1. Education: Khalifah Didik operates a network of established kindergartens supported by KD Toys which produces teaching aids and advanced learning tools for child development.

2. Care & Hospitality: At present, Love & Laugh International Islamic Childcare Centers provide the highest quality of childcare services for infants and toddlers, equipped with customized and expert endorsed modules for their development. Further, the LL@Home initiative, is designed to boost economic growth by empowering women and providing opportunities to generate income by upskilling them with comprehensive modules and training to transform them into skilled professionals.

3. Edtech: A technological solution to enhance competencies in child development parallel to current needs. This innovative approach combines the best of technology and education in transforming early childhood education globally.

4. Research Centre: The recently launched Love and Laugh Child Development Innovation and Research Institute intends to share knowledge, expertise and collaborate with educational experts to maneuver this industry into international standard. 5. Parent-Child Development Centre: This project involves big data research and analysis for personalized child development. Big data can provide invaluable insights into various aspects of child development, allowing Love & Laugh to develop effective strategies for childcare and education.

Love & Laugh is currently assessing opportunities to expand beyond Malaysia, including Southeast Asia, the broader Asia Pacific region and the Middle East markets. Love & Laugh aspires in creating positive impact on the lives of one million children by 2027 and anticipates in working together with potential partners and collaborators to revolutionize the child development industry into a technology driven ecosystem

ROBOT OPERATING SYSTEM (R.O.S)

MOHD HAZELI BIN RASUL
Chief Executive Officer (CEO)
Move Robotic Sdn. Bhd.

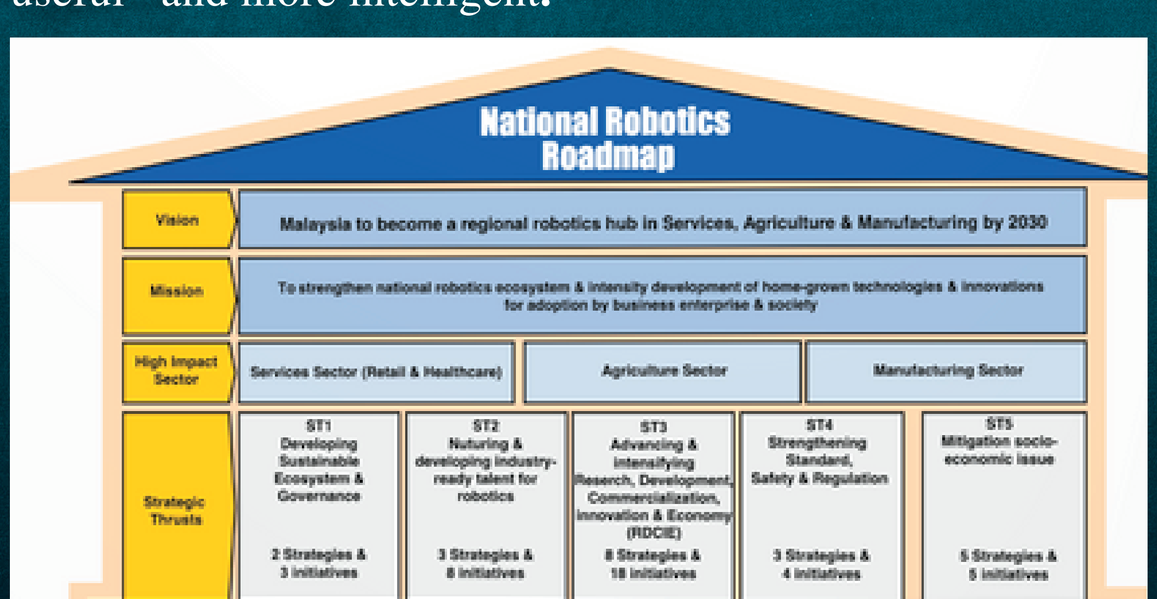
ROBOT OPERATING SYSTEM (R.O.S.) ACCELERATES NATIONAL ROBOTIC ROADMAD (NRR) TARGET.

Robotic application in industry such as warehouses and factory is not something new, but due to the rise of technology of Computing, Artificial intelligent and Electronics , it makes robot becomes more affordable. The increasing demand causing the usage of robots become exponential, and nowadays Robotics application is started to enter at Consumer and Agricultural segment. In the future, the robots will become essential to our daily live. Whether we are ready for it or not, our society need to adapt to this technology.

Robot Operating System (R.O.S)

Robot Operating System (ROS) is the Brain of the Robot, It is responsible to get information from sensor and process complex algorithm of Artificial Intelligent to understand the environment and
move its Actuator to make a motion and complete the desired task. Robot can be simulated in the ROS simulations world to test our programming, and also we can directly deploy the programming to the Actual Live Robot . ROS is a tools that allowed the developer Robot to add complex sequence and algorithm of the robot without any deep knowledge of Robot Programming.

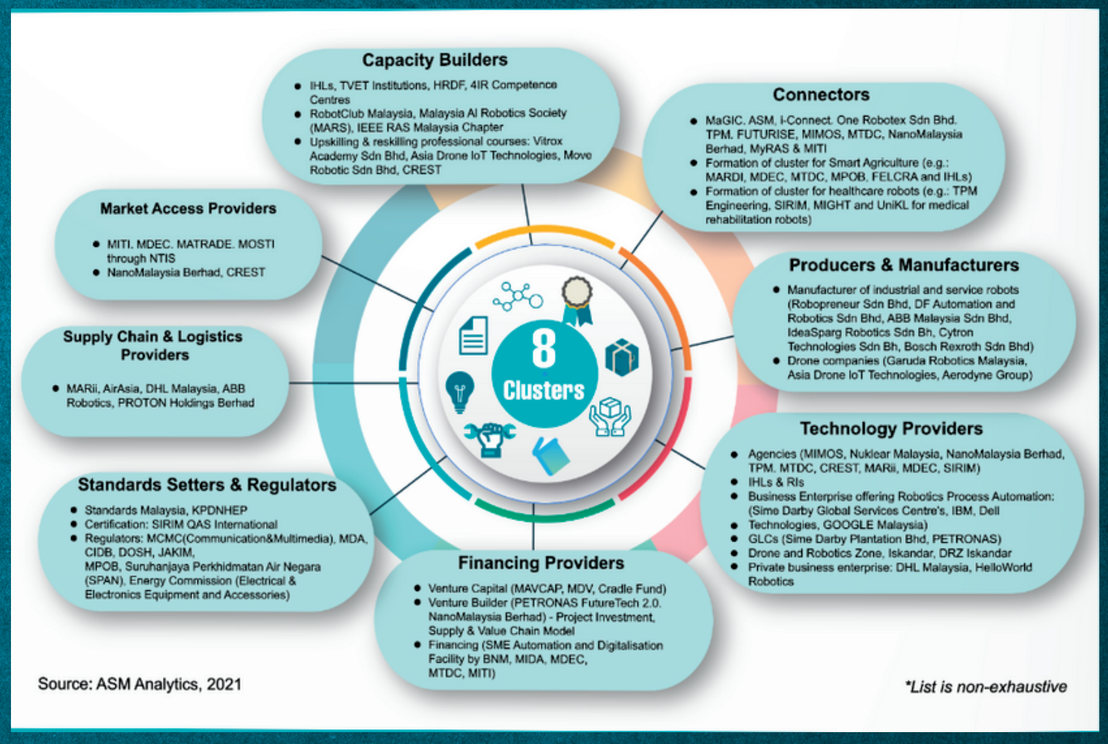
Robot Operating System (ROS) is becoming more popular to the Robot Manufacturer and Developer as it allow the development of robot become more faster and the User of the Robot can easily integrate to existing ERP Software and other additional device to make robot become more useful and more intelligent.



MOSTI launched National Robotic Roadmap (NRR) to prepare Malaysia towards better strategy andimplementations of Robotics Application and Technology Development. One of the strategic plan is to Nurture and develop industry-ready talent for Robotics.

This is very important as the usage and adoption of Robotics grows, supporting talent also need to grow. At current stage , our country is shortage in numbers of talents in Robotics industry.

MOSTI identifies 8 clusters to manoeuvre the roadmap. One that responsible of Talent Development is under Capacity Builder, where Learning Institutional is the main talent producer in Robotics related skills. But this is not enough as the numbers are still below the target.



Therefore, Up-skilling & Reskilling is essential to get targeted group to be equipped with necessary knowledge to be entered the Robotics field. Autonomous robot becoming more popular as it is have a lot of advantages. Autonomous robot help to improve efficiency and increase safety in work environment. Many real applications such as logistic, cleaning and agriculture already deployed Autonomous Robot in their daily activity. ROS allowed developer to easily develop Autonomous intelligent to the Mobile Robot platform to achieved the desired task.

CYBER GEOPOLITICS: MALAYSIA'S ROLE IN SHAPING THE GLOBAL CYBER LANDSCAPE

QAMARUL NAZRIN BIN HARUN
School of Information Science
College of Computing, Informatics and Media
Universiti Teknologi Mara (UiTM) Johor

Cyber geopolitics is a field that examines the ways in which different countries engage with and shape the global cyber landscape. With the increasing reliance on the internet and digital technologies in all aspects of life, the cyber domain has become a key area of competition and cooperation between nations. In this context, Malaysia has emerged as a significant player in shaping the global cyber landscape through its efforts to build its cyber capabilities, promote international cooperation, and engage in cyber diplomacy.

Malaysia is a Southeast Asian country with a population of over 32 million people and a rapidly growing economy. It has a rich history and culture, and is known for its diverse and vibrant society. In recent years, Malaysia has also emerged as a leader in the cyber domain, with a number of initiatives and initiatives aimed at building its cyber capabilities and promoting international cooperation. One of the key institutions responsible for coordinating Malaysia's cyber security efforts is the National Cyber Security Agency (NACSA). Established in 2018, the NACSA is tasked with coordinating the efforts of various agencies and institutions across the country to protect against cyber threats and ensure the security of Malaysia's critical infrastructure. The NACSA also works to promote the development of a cyber security ecosystem in Malaysia, including through research and development, education and training, and collaboration with other countries.

In addition to the NACSA, Malaysia also has a number of other agencies and institutions that play a role in its cyber security efforts, including the Malaysian Communication and Multimedia Commission (MCMC), the CyberSecurity Malaysia agency, and the Malaysian Institute of Microelectronic Systems (MIMOS). These organizations work together to protect against cyber threats and ensure the security of Malaysia's critical infrastructure, as well as to promote the development of a cyber security ecosystem in the country.

Malaysia has also established a number of initiatives and programs aimed at promoting cyber security research and development, education and training, and collaboration with other countries. For example, the Malaysia-Singapore Cyber Security R&D Centre is a joint venture between the two countries that aims to promote research and development in the field of cyber security. Similarly, the ASEAN-Japan Cybersecurity Cooperation Initiative is a regional effort aimed at fostering collaboration and dialogue on cyber security issues among the countries of Southeast Asia and Japan.

Overall, Malaysia's efforts to build its cyber capabilities and promote international cooperation have contributed to its growing presence in the global cyber landscape. By investing in its cyber capabilities and engaging in international efforts to promote cooperation and dialogue, Malaysia is positioning itself as a key player in the cyber domain. This is important not only for Malaysia's own national security and the security of its citizens, but also for the stability and security of the global cyber landscape as a whole.

Malaysia's efforts to promote international cooperation in cyberspace:

In addition to building its own cyber capabilities, Malaysia has also been actively engaged in international efforts to promote cooperation in the cyber domain. This includes its participation in regional and international organizations such as the Association of Southeast Asian Nations (ASEAN) and the United Nations Group of Governmental Experts on Cybersecurity (UNGGE). Through its involvement in these organizations, Malaysia has worked to foster dialogue and cooperation on cyber security issues with other countries in the region and globally.

ASEAN is a regional organization comprising 10 Southeast Asian countries, including Malaysia. ASEAN has been actively engaged in efforts to promote cooperation and dialogue on cyber security issues among its member states. In 2015, ASEAN adopted the ASEAN Cybersecurity Cooperation Declaration, which commits the countries of the region to work together to address cyber threats and incidents. This includes efforts to strengthen the capacity of ASEAN member states to respond to cyber incidents, enhance cooperation on cyber crime investigation, and promote cyber security awareness and education. Malaysia has played a key role in the development and implementation of the ASEAN Cybersecurity Cooperation Declaration and has contributed to the ongoing efforts of the organization to enhance cyber security cooperation in the region.

Malaysia has also been active in the United Nations Group of Governmental Experts on Cybersecurity (UNGGE). The UNGGE is a forum for governments to discuss and develop recommendations on international cyber security issues. Malaysia has participated in the UNGGE since its inception in 2004 and has contributed to the development of a number of important documents, including the UNGGE's reports on international norms, rules, and principles for responsible state behavior in cyberspace. Through its participation in the UNGGE, Malaysia has played a role in shaping the global discourse on cyber security and has contributed to the development of international norms and principles for responsible state behavior in the cyber domain.

In addition to its participation in regional and international organizations, Malaysia has also established bilateral relationships with other countries to enhance cooperation in the cyber domain. For example, Malaysia has a Cybersecurity Cooperation Agreement with the United States, which aims to promote cooperation on cyber security issues such as capacity building and the exchange of best practices. Malaysia has also signed a number of other bilateral agreements with countries such as Japan, South Korea, and India to enhance cooperation on cyber security issues. Overall, Malaysia's efforts to promote international cooperation in the cyber domain have helped to enhance stability and security in the global cyber landscape.

MOSTI launched National Robotic Roadmap (NRR) to prepare Malaysia towards better strategy andimplementations of Robotics Application and Technology Development. One of the strategic plan is to Nurture and develop industry-ready talent for Robotics.

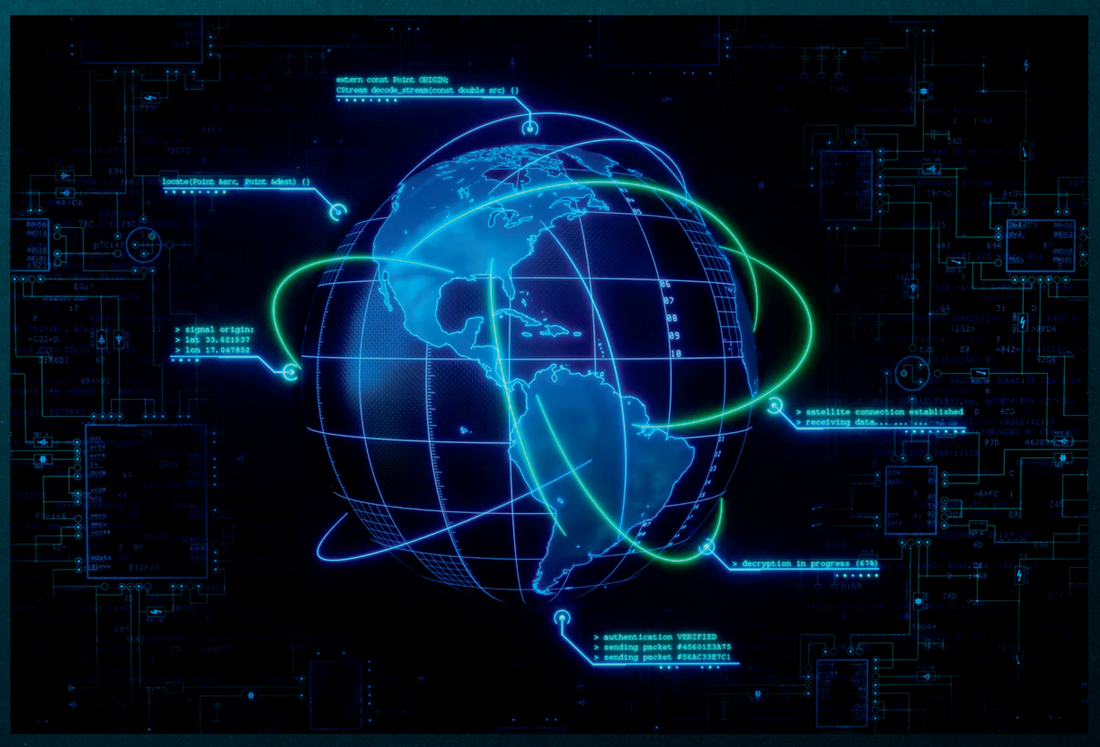
This is very important as the usage and adoption of Robotics grows, supporting talent also need to grow. At current stage , our country is shortage in numbers of talents in Robotics industry.

MOSTI identifies 8 clusters to manoeuvre the roadmap. One that responsible of Talent Development is under Capacity Builder, where Learning Institutional is the main talent producer in Robotics related skills. But this is not enough as the numbers are still below the target.

Malaysia's role in shaping the global cyber landscape:

Malaysia's efforts to build its cyber capabilities and promote international cooperation have contributed to its growing presence in the global cyber landscape. By investing in its cyber capabilities and engaging in international efforts to promote cooperation and dialogue, Malaysia is positioning itself as a key player in the cyber domain.

In addition to its efforts to build its own cyber capabilities and promote international cooperation, Malaysia has also taken steps to address cyber threats and incidents. For example, the NACSA has established a National Cyber Incident Response Team (NCIRT) to respond to and manage cyber incidents. Malaysia has also signed the ASEAN Cybersecurity Cooperation Declaration, which commits the countries of Southeast Asia to work together to address cyber
threats and incidents in the region. Through these initiatives, Malaysia is playing a role in shaping the global cyber landscape by addressing cyber threats and incidents and contributing to the stability and security of the cyber domain.



Malaysia's efforts to promote cyber security research and development:

Malaysia has also invested in cyber security research and development as a means of building its cyber capabilities and shaping the global cyber landscape. One example of this is the Malaysia-Singapore Cyber Security R&D Centre, a joint venture between the two countries that aims to promote research and development in the field of cyber security. The centre conducts research on a range of cyber security issues, including cybercrime, cyber defense, and cybersecurity governance, and works to identify solutions to these challenges. The centre also serves as a platform for collaboration between researchers and industry partners, and works to transfer research findings into practical solutions and commercial products. Through its involvement in the Malaysia-Singapore Cyber Security R&D Centre, Malaysia is contributing to the development of innovative solutions to cyber security challenges and is positioning itself as a key player in the global cyber landscape.

Malaysia has also invested in cyber security research and development through its involvement in the ASEAN-Japan Cybersecurity Cooperation Initiative. This initiative is a regional effort aimed at fostering collaboration and dialogue on cyber security issues among the countries of Southeast Asia and Japan. The initiative includes several research and development projects focused on areas such as cybercrime, cyber defense, and cybersecurity governance. By participating in the ASEAN-Japan Cybersecurity Cooperation Initiative, Malaysia is contributing to the development of innovative solutions to cyber security challenges and is positioning itself as a key player in the global cyber landscape.

Malaysia has also invested in cyber security research and development through its involvement in the ASEAN-Japan Cybersecurity Cooperation Initiative. This initiative is a regional effort aimed at fostering collaboration and dialogue on cyber security issues among the countries of Southeast Asia and Japan. The initiative includes several research and development projects focused on areas such as cybercrime, cyber defense, and cybersecurity governance. By participating in the ASEAN-Japan Cybersecurity Cooperation Initiative, Malaysia is contributing to the development of innovative solutions to cyber security challenges and is positioning itself as a key player in the global cyber landscape.

In addition to its involvement in regional initiatives, Malaysia has also established its own research and development programs focused on cyber security. For example, the CyberSecurity Malaysia agency has a number of research and development programs focused on areas such as cybercrime, cyber defense, and cybersecurity governance. These programs aim to identify solutions to cyber security challenges and transfer research findings into practical solutions and commercial products. Through its investment in cyber security research and development, Malaysia is contributing to the development of innovative solutions to cyber security challenges and is positioning itself as a key player in the global cyber landscape.

Malaysia's efforts to promote cyber security education and training:

In addition to its efforts to build its cyber capabilities through research and development, Malaysia has also invested in cyber security education and training. This includes efforts to promote cyber security awareness and education among the public, as well as efforts to train and develop the cyber security workforce.

One example of Malaysia's efforts to promote cyber security education and training is the CyberSecurity Malaysia agency's Cybersecurity Awareness and Education Program. This program aims to promote cyber security awareness and education among the public through a range of initiatives, including public campaigns, seminars, and workshops. The program also works to develop cyber security education materials and resources for use in schools and other educational institutions. By promoting cyber security awareness and education, Malaysia is working to build a more resilient and secure cyber landscape and is positioning itself as a key player in the global cyber landscape.

In addition to its efforts to promote cyber security awareness and education among the public, Malaysia has also invested in training and developing the cyber security workforce. This includes initiatives such as the CyberSecurity Malaysia agency's Cybersecurity Talent Development Program, which aims to train and develop a skilled and knowledgeable cyber security workforce. The program includes a range of initiatives, including internships, scholarships, and training programs, and works to develop the knowledge and skills of cyber security professionals in Malaysia. By investing in the training and development of the cyber security workforce, Malaysia is building its cyber capabilities and is positioning itself as a key player in the global cyber landscape.

Way Forward:

As Malaysia continues to shape the global cyber landscape through its efforts to build its cyber capabilities, promote international cooperation, and address cyber threats and incidents, there are several areas that it could focus on moving forward.

One key area for Malaysia to focus on is further developing its cyber security infrastructure and capabilities. This could include investments in technologies such as artificial intelligence and machine learning, which have the potential to enhance the ability of Malaysia's cyber security agencies and institutions to detect and respond to cyber threats and incidents. In addition, Malaysia could consider strengthening its laws and regulations related to cyber security, including by updating its cybersecurity framework and establishing clear guidelines for the protection of critical infrastructure.

Another area for Malaysia to focus on is deepening its international cooperation on cyber security issues. This could involve further developing its relationships with key partners such as the United States, Japan, and South Korea, and exploring opportunities for collaboration with other countries in the region and globally. This could also involve further participation in regional and international organizations such as ASEAN and the UNGGE and working to promote dialogue and cooperation on cyber security issues.

Malaysia could also consider focusing on increasing its efforts to promote cyber security awareness and education among the general public. This could involve initiatives such as public campaigns, seminars, and workshops, as well as efforts to develop cyber security education materials and resources for use in schools and other educational institutions. By increasing awareness and education about cyber security, Malaysia can work to build a more resilient and secure cyber landscape and continue to play a key role in shaping the global cyber landscape.

In addition, Malaysia could focus on building its capacity to respond to and manage cyber incidents. This could involve strengthening its incident response systems and procedures, as well as investing in technologies and capabilities that can help to mitigate the impact of cyber
incidents. By building its capacity to respond to and manage cyber incidents, Malaysia can work to enhance the stability and security of the global cyber landscape.

Finally, Malaysia could consider investing in research and development related to cyber security. This could involve supporting research programs and initiatives aimed at developing innovative solutions to cyber security challenges, as well as collaborating with other countries and organizations to share knowledge and expertise in this area. By investing in research and development, Malaysia can contribute to the development of new technologies and approaches that can help to enhance the security and stability of the global cyber landscape.

Overall, there are many areas that Malaysia could focus on moving forward as it continues to shape the global cyber landscape. By investing in its cyber security infrastructure and capabilities, deepening its international cooperation on cyber security issues, increasing its efforts to promote cyber security awareness and education, building its capacity to respond to and manage cyber incidents, and investing in research and development, Malaysia can continue to play a key role in shaping the global cyber landscape and position itself as a leader in the cyber domain

Conclusion:

In conclusion, Malaysia has emerged as a significant player in shaping the global cyber landscape through its efforts to build its cyber capabilities, promote international cooperation, and engage in cyber diplomacy. By investing in its own cyber capabilities and engaging in international efforts to promote cooperation and dialogue, Malaysia is positioning itself as a key player in the cyber domain. This is important not only for Malaysia's own national security and the security of its citizens, but also for the stability and security of the global cyber landscape as a whole.

In addition to its efforts to build its cyber capabilities and promote international cooperation, Malaysia has also taken steps to address cyber threats and incidents. For example, the NACSA has established a National Cyber Incident Response Team (NCIRT) to respond to and manage cyber incidents. Malaysia has also signed the ASEAN Cybersecurity Cooperation Declaration, which commits the countries of Southeast Asia to work together to address cyber threats and incidents in the region. Through these initiatives, Malaysia is playing a role in shaping the global cyber landscape by addressing cyber threats and incidents and contributing to the stability and security of the cyber domain.

Malaysia has also invested in cyber security research and development as a means of building its cyber capabilities and shaping the global cyber landscape. This includes its involvement in initiatives such as the Malaysia-Singapore Cyber Security R&D Centre and the ASEAN-Japan Cybersecurity Cooperation Initiative, as well as its own domestic research and development programs. Through its investment in cyber security research and development, Malaysia is contributing to the development of innovative solutions to cyber security challenges and is positioning itself as a key player in the global cyber landscape.

In addition to its efforts to build its cyber capabilities through research and development, Malaysia has also invested in cyber security education and training. This includes efforts to promote cyber security awareness and education among the general public, as well as efforts to train and develop the cyber security workforce. By investing in cyber security education and training, Malaysia is working to build a more resilient and secure cyber landscape and is positioning itself as a key player in the global cyber landscape.

Overall, Malaysia's efforts to build its cyber capabilities, promote international cooperation, and address cyber threats and incidents have been significant and have contributed to the stability and security of the cyber domain. Through its investments in research and development, education and training, and cooperation with other countries, Malaysia is playing a key role in shaping the global cyber landscape and is positioning itself as a leader in the cyber domain.

REVOLUTIONIZING EDUCATION FOR THE 21ST CENTURY WORKFORCE: THE DYNAMIC RELATIONSHIP BETWEEN EDUCATION AND INDUSTRY

Lok Kah Fai
Technical Advisor
Tech Up Group

What is the relationship between Education and Industry?

In the past, education was largely driven by the needs of industry. For example, the growth of the manufacturing sector in the 19th and 20th centuries led to a greater emphasis on vocational education and training. This allowed individuals to acquire the skills needed to work in factories and other industrial settings. Similarly, the rise of the service sector in the 20th century led to a greater emphasis on business and management education.

As technology advances, so has the relationship between education and industry. The rise of digital technologies has led to a greater emphasis on S.T.E.M. (Science, Technology, Engineering, and Mathematics) education, as well as the development of new fields such as computer science and information technology.

What are the roles of 21st century education?

If we investigate 21st century education, it is an initiative from both education and industry to push forth an evolution in the skill set requirement in future workforce. The increasingly use of automation and artificial intelligence in the industry will be likely to lead a greater emphasis on education in such areas such as data analytics and machine learning. Additionally, educators are looking ways to utilize today and tomorrow technologies to be integrated in schools and institution. Undoubtedly, these drive the new skills into classroom.

The emphasis of 21st century education focuses on new skill set and optimizing how class is being conducted. As our technologies evolve, students and teachers are required to increase the digital aspect of life such as technology usage, safety, responsibility and ethically. All this come down to a point, an inflection point where education industries are required to transform through this open a space for private, public and student to drive what 21st century education looks like.

What should educators and industry do?

Emphasizing the importance of critical thinking, creativity, and problem-solving. As technology continues to advance, it is increasingly important for students to be able to think critically, be creative and develop problem-solving skills, as these are the skills that will be in demand in the future job market.

Create opportunities for collaboration and teamwork. The use of technology in education and industrial training allows for easy collaboration and teamwork, both in the physically and remotely. Encourage students to work together on projects, and use tools like digital whiteboards, video conferencing and collaboration tools.

Integrate digital citizenship education into your curriculum. Digital citizenship education teaches students how to use technology responsibly, safely, and ethically. This includes understanding how to protect personal information, how to deal with cyberbullying and online harassment, and how to be a responsible digital citizen.

Continuously improve yourself as an educator and industrial trainer by participating in continuous professional development opportunities. This could include attending workshops, participating in online courses and webinars, and networking with other educators in your field.

By incorporating these strategies, educators can actively participate in 21st century education and help ensure that their students are well-prepared for the digital age.

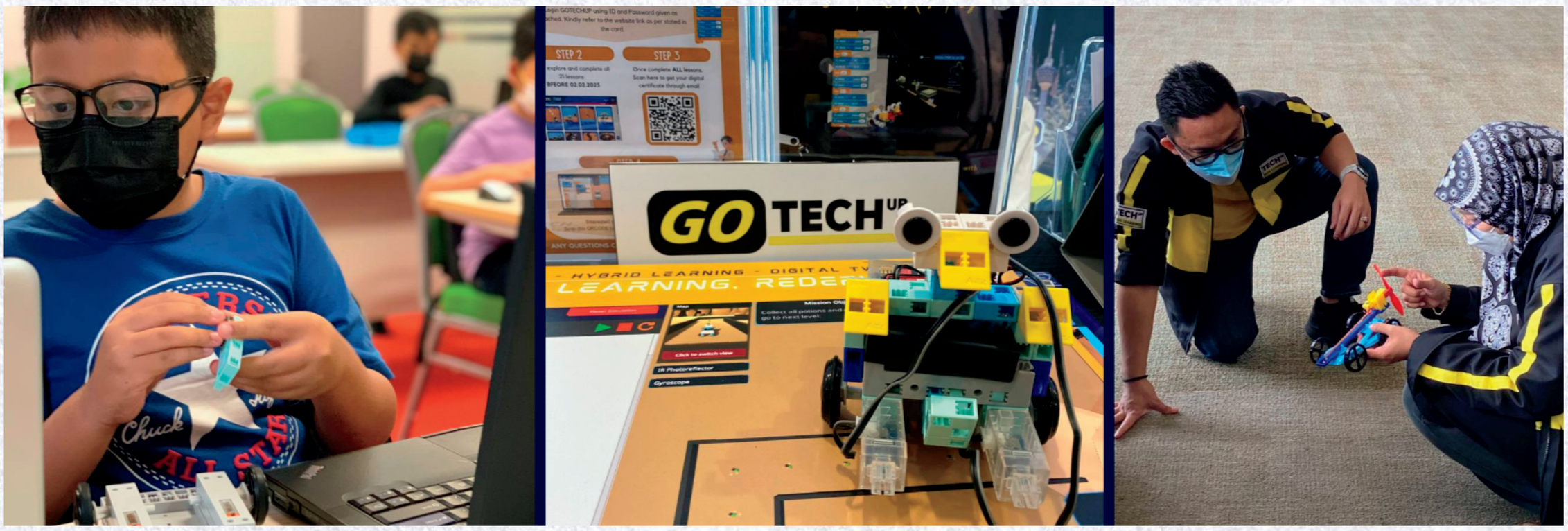
Final thoughts

From an educator and industry perspective, it is important to stay informed about the latest technology and mega trend of the industries. This includes keeping up with the new technologies evolving in how we conduct our daily operation be it in education or your respective industries. These developments dictate the forthcoming of new teaching or training tools with innovative techniques to deliver new skills and knowledge. Here are some of the things that educators and industry players can incorporate in daily decision making:

This is the future, and we are always at the beginning.

Who Is Tech Up?

Tech Up is a leading education solutions provider whose mission is to make teaching and learning Science Technology Engineering Mathematics (STEM) fun and effective across Southeast Asia. Tech Up's flagship software GoTechUp is an advanced gamified simulation software currently with more than 6,000 users in several countries including Malaysia, Japan, France, and Latin America. Tech Up hybrid STEM programs have been experienced by more than 5,000 educators and 20,000 students in over 500 schools nationwide. Tech Up has been the sole distributor of STEM educational material learning products developed by Artec Co. Ltd. from Japan since 2019. Founded in 2018, Tech Up Sdn. Bhd. is an emerging edtech company based in Malaysia. Visit www.techup.com.my



MIFA EVENT PLANNER 2023

JANUARY

- *25/01/2023*

MIFA Exco Meeting

FEBRUARY

- *15-16/02/2023*

MOSTI x MIFA x SEELOZ Govt – Industry Engagement Program / Conference / Exhibition.

MARCH

- *1-15/3/2023*

Industrial Training

- *22/3/2023*

MIFA Exco Meeting

23/3/2023 onwards)

Ihya' Ramadhan

APRIL

- Ihya' Ramadhan
- IdulFitri Celebration

MAY

- *Industrial Engagement*
- *Public Agency Engagement*
- *NGO Engagement*
- *Industrial Training*
- *24/5/2023*

MIFA Exco Meeting

JUNE

29/6/2023

MIFA Mid Year Review

JULY

- *14/7/2023*

MIFA Sports Day

- *25 /7/2022*

MIFA RoboCon& Drone Fest 2023

- *26/7/2023*

MIFA Exco Meeting

AUGUST

- AGM 2023-2024
- MIFA Luncheon
- MIFA Courtesy Visits to All Relevant Ministries, Agencies & Departments

SEPTEMBER

- MIFA Courtesy Visits to All Relevant Ministries & Agencies
- *27/9/2023*

MIFA Exco Meeting

OCTOBER

- ASEAN Industry 4.0 Networking Month (Singapore / Indonesia / Thailand / Brunei / Vietnam)

NOVEMBER

- *15/11/2023*

MIFA Year End Review & Summit / Conference

- *29/11/2023*

MIFA Exco Meeting

DECEMBER

- *5-8/12/2023*

MIFA Academy Virtual Open Day 2023

TRAINING LIST OF TRAINING OFFERED BY MIFA ACADEMY 2023

PROGRAMMING LANGUAGES

NO	TRAINING TITLE	DAY(S)	PRICE (RM)
1.	JAVA	3	2,500
2.	PYTHON	3	2,500
3.	JSON	3	2,500
4.	NODE-RED	3	2,500
5.	R LANGUAGE	3	2,500
6.	FLUTTER PROGRAMMING	2	2,700
7.	JAVASCRIPT	5	2,600
8.	HTML5	2	1,500
9.	CSS3	2	1,500
10.	TYPESCRIPT	3	1,800
11.	JAVA – Entry level Java Programmer: JAVA SE7 Fundamentals	5	3,400
12.	JAVA – Professional Programmer: JAVA SE7 Fundamentals	5	3,400
13	JAVA - Servlet & Java server Pages (JSP) Developer	5	3,400
14.	PHP – Beginner to Intermediate	5	2,600
15.	PHP – Oriented Programming (OOP)	5	2,600
16.	PHP 7 Programming	5	2,600
17.	COLDFUSION – Beginner to Intermediate	5	2,600
18.	COLDFUSION - Advanced	5	2,600
19.	C# - Programming C# with Microsoft Visual Studio	5	2,600
20.	R Programming	4	2,200
21.	Secure Programming	5	2,600
22.	Unit Testing Programming	5	2,600
23.	LUCEE	5	2,600

ROBOTICS AND AUTOMATION TRAININGS

24.	PROGRAMMABLE LOGIC CONTROLLER - SIEMENS	3	3,900
25.	PROGRAMMABLE LOGIC CONTROLLER - MITSUBISHI	3	3,900
26.	PROGRAMMABLE LOGIC CONTROLLER - OMRON	3	3,900
27.	PROGRAMMABLE LOGIC CONTROLLER - PANASONIC	3	3,900
28.	PROGRAMMABLE LOGIC CONTROLLER – SCHNEIDER ELECTRIC	3	3,900
29.	PROGRAMMABLE LOGIC CONTROLLER - ABB	3	3,900
30.	INDUSTRIAL HMI	2	2,600
31.	SCADA SYSTEM	5	6,500
32.	ADVANCE PLC, HMI & SCADA SYSTEM	10	11,700
33.	ROBOTIC AUTOMATION	5	6,500
34.	ROBOT OPERATING SYSTEM (ROS)	3	4,700
35.	ARM CONTROLLER & IOT PROGRAMMING	3	3,500
36.	SCARA ROBOT (SELECTIVE COMPLIANCE ARTICULATED ROBOT ARM)	3	5,800
37.	PLC & IOT (PROGRAMMABLE LOGIC CONTROLLER)	3	3,500
38.	LINEAR ROBOT	2	4,500
39..	AUTONOMOUS MOBILE ROBOT	3	4,500
40.	MOBILE ROBOT DEVELOPMENT	3	5,700

INDUSTRY 4.0 – IOT & IIOT TRAINING

41.	FUNDAMENTAL OF INDUSTRY 4.0 & INTERNET OF THINGS (IOT)	3	3,500
42.	IOT FOR SMART AGRICULTURE	3	3,500
43.	IOT FOR SMART CITIES	3	3,500
44.	LORA-WAN TRAINING	3	3,500
45.	IOT WITH RASPBERRY PI (NODE-RED)	3	3,500
46.	IOT WITH RASPBERRY PI (PYTHON)	3	3,500
47.	IOT WITH RASPBERRY PI & FAVORIOT	3	3,500
48.	BASIC INDUSTRIAL INTERNET OF THINGS (IIOT)	3	3,500
49.	ADVANCE INDUSTRIAL INTERNET OF THINGS (IIOT)	5	4,850
50.	BASIC INDUSTRIAL INTERNET OF THINGS (IIOT) WITH SIMATIC GATEWAY – CERTIFICATION FROM SIEMENS	3	4,600
51.	ADVANCE INDUSTRIAL INTERNET OF THINGS (IIOT) WITH SIMATIC GATEWAY – CERTIFICATION FROM SIEMENS	5	6,500
52.	ARDUINO & IOT PROGRAMMING	3	2,700
53.	RIG : IOT ALL IN ONE	3	4,500

INDUSTRY 4.0 - CLOUD COMPUTING & BIG DATA TRAININGS

54.	CLOUD COMPUTING FOUNDATION	3	3,500
55.	DATA SCIENCE FOUNDATION	3	3,500
56.	BIG DATA ANALTICS WITH MONGODB ATLAS CLOUD	5	4,800
57.	BIG DATA ANALYTICS WITH AWS CLOUD	5	4,800
58.	BIG DATA ANALYTICS WITH HADOOP TECHNOLOGY	5	4,800
59.	DATA MINING AND WEKA SOFTWARE TOOL	3	4,800
60.	BASIC ARTIFICIAL INTELLIGENCE TRAINING	3	3,500
61.	MASTERING ARTIFICIAL INTELLIGENCE & DEEP LEARNING	5	4,800
62.	ANDROID PROGRAMMING AUGMENTED REALITY (AR)	5	4,800
63.	ANDROID APPS	3	2,700
64.	MACHINE LEARNING	3	3,700
65.	CLOUD COMPUTING	3	3,700
66.	BLOCK CHAIN	2	4,500
67.	MYSQL DATABASE ADMINISTRATOR	3	1,800
68.	MYSQL QUERYING	3	1,800
69.	DATABASE DESIGN	3	1,800

DATA ANALYSIS

70.	GOOGLE ANALYTICS	3	1,800
71.	BUSINESS INTELLIGENCE (BI)	3	2,600
72.	MICROSOFT EXCEL DASHBOARD	5	2,600
73.	WIRESHARK	2	1,800

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74.	JAVA	3	2,200
75.	PHP	3	1,800

DISTRIBUTED VERSION CONTROL

76.	GITN	3	1,800

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78.	CROSS-PLATFORM: REACT NATIVE	5	2,600
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80.	UI FRAMEWORK: FLUTTER FRAMEWORK	5	2,600
81.	NATIVE: JAVA FOR ANDROID	5	2,600
82.	NATIVE: SWIFT FOR IOS	5	2,600

UI FRAMEWORK

82.	ANGULAR JS	5	2,600
83.	NODE JS	5	2,600
84.	VUE JS	5	2,600
85.	EXT JS	5	2,600
86.	REACT JS	5	2,600
87.	METEOR JS	5	2,600
89.	BOOTSTRAP	3	1,800
90.	JQUERY - MOBILE	4	2,200
91.	JQUERY	3	1,800
92.	FOUNDATION	5	2,600

FRAMEWORK

93.	PHP – Laravel Framework	5	2,600
94.	PHP – CodeIgniter Framework	5	2,600
95.	PHP – Yii Framework	5	2,600
96.	PHP – Slim Framework	5	2,600
97	JAVA – Struts Framework	5	3,400
98.	JAVA – Liferay Framework	5	3,400
99.	COLDFUSION – Railo Framework	5	3,400

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108.	CENTOS SYSTEM ADMINISTRATOR	5	2,600

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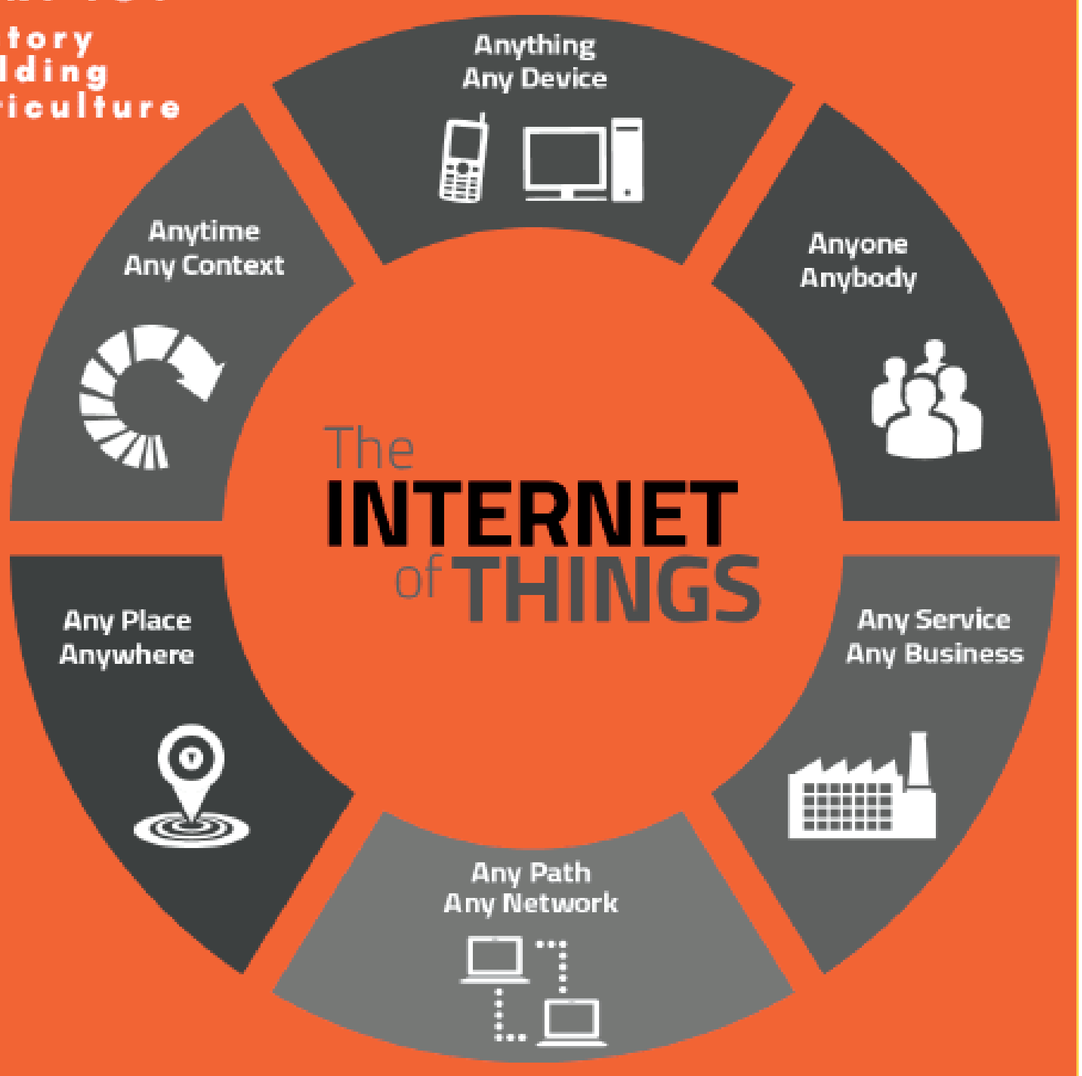

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